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HORTICULTURE

INDEX TO VOL III.

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HOUSE OF CARNATION ROBERT CRAIG
AT COLLEGE GARDENS

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

We are making no ABSURD CLAIMS for the NEW CARNATION

ROBERT CRAIG

But are DELIVERING the FULL QUOTA OF CUTTINGS on ALL our CONTRACTS from now on.

The most profitable **Scarlet Carnation** is in **FULL CROP** during the **HOLIDAYS**.

Scarlet Carnations blooming in November and Early Spring and failing to produce abundant Christmas crops are not the most profitable for the commercial worker.

ROBERT CRAIG produces a maximum crop of immense long stemmed blooms at Christmas that sell at higher prices than any other Scarlet Carnation yet offered on the market. It commences blooming in September and continues in steady crop till July and will produce

A Larger Christmas Crop

than any other Scarlet Carnation and equal the production of any other Scarlet variety, bloom for bloom, throughout the season. It has regularly defeated all other Scarlet Carnations at the leading flower shows during the past two years wherever it has been staged.

In proof of the value of **ROBERT CRAIG** read the following unparalleled Record of premiums won :

AT PHILADELPHIA

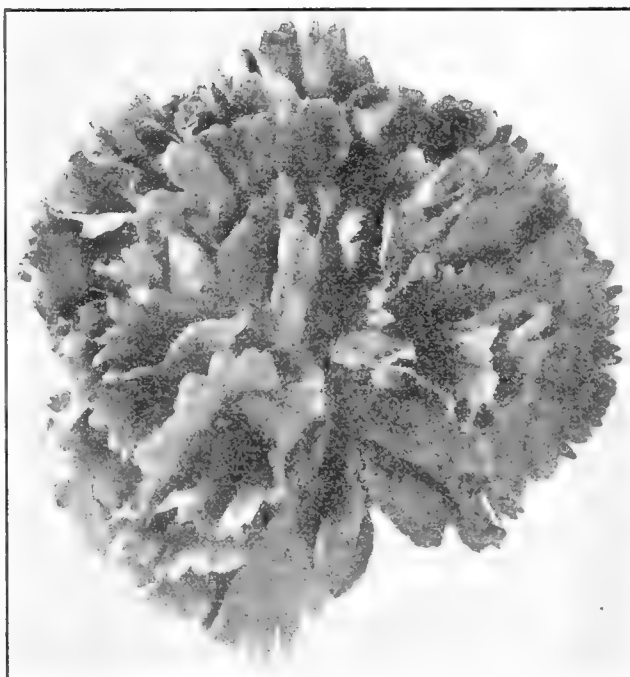
1. Silver Cup, for best American Seedling extant in 1904.
2. Same prize in 1905.
3. J. Hartman Kuhn Prize in 1904.
4. Same prize in 1905.

AT CHICAGO

5. Lawson Silver Medal for 1905.
6. Society American Florists' Silver Medal for 1905.
7. First for best 100 blooms Scarlet Seedling, 1905.
8. First for best 20 blooms Scarlet Seedling, 1905.
9. American Carnation Society's First class Certificate of Merit, 1905.

AT KANSAS CITY

10. Gold Medal for best Seedling Carnation, 1905.
11. Best 20 blooms any Scarlet, 1905.



CARNATION ROBERT CRAIG. SINGLE BLOOM

AT WORLD'S FAIR, ST. LOUIS

12. Silver Medal (special).
13. Best 100 blooms any Scarlet, 1905.

AT NEW YORK

14. Special Premium, American Institute.
- 15, 16. Two First Premiums, 1905.

17. First as best Scarlet at Tarrytown, N. Y., 1905.
18. First as best Scarlet at New Haven, Conn., 1905.
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20. First as best Scarlet at Milwaukee, Wis., 1905.
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Besides Numerous Certificates of Merit and Special Mentions

It produces the largest bloom, strongest stem, most vigorous and healthy habit of any Scarlet Carnation extant.

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QUEENS, L. I., N. Y.

J. D. Thompson Carnation Co.
JOLIET, ILL.

MY MARYLAND

ANNOUNCEMENT TO THE TRADE:

We, The H. Weber & Sons Co. of Oakland, Md., respectfully announce that The E. G. Hill Co. of Richmond, Ind., have withdrawn from the contract made with us last Spring whereby they would have jointly with us, disseminated our new white carnation, My Maryland.

The variety has been on trial at Richmond, (3,000 plants), Brooklyn, (300 plants) Philadelphia, (1000 plants) and Toronto, (1000 plants).

Reports from the first two named places characterize the variety as being practically worthless, while from Toronto and Philadelphia favorable reports indicate that the variety is bearing out our claims for it.

Our own stock at Oakland is in elegant shape. An extremely wet Summer necessitated the holding of stock in a semi-dormant condition after being housed Aug. 15th to Sept. 1st, thus making stock too late for the Fall shows. Since Dec. 1st we have been cutting grand blooms, and to prove our claims for the variety we invite all interested to come to Oakland and look it over. While it is a source of regret to us that the variety has not proven satisfactory in all places tried, we are satisfied that it will prove our claims for it in at least some places besides our own.

We therefore announce that we will disseminate My Maryland as per our advertisements, but before shipping any stock we give to each and every one the right to cancel all or any portion of their orders.

JESSICA, we believe will succeed everywhere. It is even better than last year. As a red and white it has no competitor. Stock ready now. Price for both varieties, \$2.50 per doz., \$12.00 per 100, \$100.00 per 1000.

The H. Weber & Sons Co., Oakland, Md.

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First Class Certificate American Carnation Society
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(Rooted Cuttings and Pot Plants.)

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CHRYSANTHEMUMS

(Rooted Cuttings)

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The Wholesale Florist of PHILADELPHIA

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Joliet, Ill.

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	100	1000
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7-10 " 3.00 " 20.00 "

Good Varieties mixed colors, not truly named
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Now Ready. Commenced shipping Dec. 1st. Orders filled in rotation.

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Carnations and Roses

List Ready Now.
Send for Copy.

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The sensational rose at the Temple and Regents Park Shows, London, England, May 29 and June 1, 1905. Awarded Gold Medals.

Plants for forcing in pots. Prices on application, order now.

"WEDDING BELLS" in pots, strong plants from open ground, extra fine, suitable for Easter sales. "FRAU KARL DRUSCHKE," the new white rose, and "KILLARNEY." My stock of these is large and of best quality. Excellent "ULRICH BRUNNER" for forcing.

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SINGLES—White, Yellow, Scarlet, Orange, Pink, separate colors, \$1.00 per 100. Mixed Colors, \$2.75.
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Waban, Mass.

Telephone, - - - Newton South 479-2

Nephrolepis Piersoni Elegantissima

See our advertisement in issue of Dec. 9—Page 623.

HORTICULTURE

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JANUARY 6, 1906

NO. 1

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SPIRAEA JAPONICA

\$1.00 per doz., \$5.00 per 100.

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Selected Dresden per 1000, \$20.00; per case of 2000 pips, \$35.00.

Best Berlin per 1000, \$17.50; per case of 2000 pips, \$32.50.

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THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
WIDELY IMITATED BUT NEVER EQUALLED
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DON'T ACCEPT INFERIOR IMITATIONS
PRICE 60¢ PER BOX OF 12 SHEETS
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Our own strain grown especially for us; 85 to 90 double flowers:
Pure White 1/2 doz. .75, 1 oz. \$5.00
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Lilies, Japanese Plants**BAMBOO STAKES****SUZUKI & IIDA**

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Verbena, Michell's Mammoth Strain. New Crop Seed. This is the finest strain of Verbenas ever offered to the trade, in 5 separate colors and mixed colors

Tr. pkt., 30c., \$1.50 per oz.

Smilax Seed. New Crop. Tr. pkt., 10c., BLE, 25c. oz., 80c. 1/4 lb., \$2.50 per lb.

Asparagus P. Nanus, greenhouse, grown New crop, strictly fresh seed. Per 100, 60c. \$5.00 per 1000 seeds.

Spiraea Compacta Multiflora

Monster clumps, 80c per doz., \$4.50 per 100, \$42.00 per 1000.

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Monster clumps, 80c per doz., \$4.50 per 100, \$42.00 per 1000

Lily of Valley Berlin Pips.

In excellent condition, per 100, \$1.25, \$10.75 per 1000, \$25.00 per case of 2500 pips.

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The new strain has proved to be very superior for florists' use. In habit it is similar to Blanche Ferry, the pink showing up brighter than in that old favorite. It is an early and continuous bloomer, coming into bloom in about ten weeks. When the bottom branches commence to flower, stems about fourteen inches long with four flowers on a spray are the rule. It is a dwarf grower, rarely reaching over five feet. Many of my customers have spoken highly of this strain, and I have pleasure in recommending it to all who grow sweet peas for the market.

	OZ.	LB
Pink and White	\$.25	\$2.00
Pure White	.25	2.00

George C. Watson

—SEEDSMAN—

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Other varieties of Sweet Peas at usual market prices.



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BULBS

and PLANTS
Ralph M. Ward & Co.

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SOLD BY SEED DEALERS OF AMERICA

Echoes from England

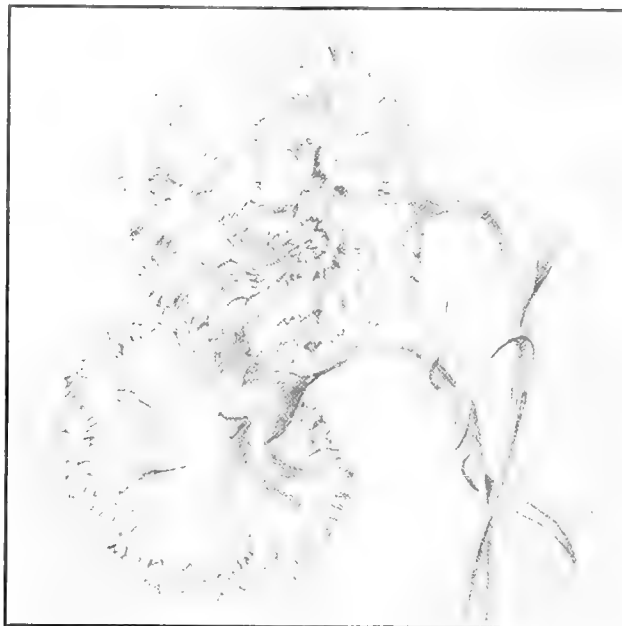
THE BEST MARKET CHRYSANTHEMUMS

The National Chrysanthemum Society held an exhibition of market chrysanthemums recently and many of the market growers exhibited. You may be interested to have a note of some of the best sorts in each color. Among whites three of the best were Mme. Th. Panekoucke, a large flower with broad flat petals; Western King a favorite market white, a roundish bloom with somewhat loose, broad white petals; Mrs. J. Thompson, Japanese incurved, a very attractive flower. The most beautiful among the pinks was Framfield Pink, a charming reflexed flower, of rose pink coloring. Mme. L. Charvet, a globular bloom with reflexing petals, silvery white in the centre, the outer petals being deep rose-pink. Of crimsons Exmouth Crimson, deep crimson-red with bronze reverse to the broad petals, was one of the best. Among so-called bronze flowers Tuxedo was the favorite. The petals of this variety are notched, giving a curiously quaint appearance to the blooms. One of the finest yellows was Negoya, a beautiful Japanese with drooping rich yellow petals. Most of the blooms were arranged in market bunches, plenty of space being allowed between each flower. They were somewhat stiff in appearance perhaps, but nevertheless the individual blooms showed to excellent advantage. The finest new market chrysanthemum shown on this occasion was Golden Thompson, a sport from Yellow Mrs. Thompson. It is a Japanese incurved, with petals whose coloring was described by the exhibitor as terra-cotta bronze, really a light bronze. The flowers were of good size and the plant was said to be very free flowering. A large silver medal was awarded to this variety.

A small silver medal was given to the new chrysanthemum Old Gold, a handsome reflexed Japanese. The coloring in the center of the large and rather flat bloom is old gold, or almost bronze, fading to yellow towards the margin. It is a very beautiful flower. It was exhibited by Messrs. Wells and Co., Merstham, Surrey, who have introduced many good sorts. Another new variety that received a bronze medal is Miss Hilda Weekes, a sport from Niveus. This is a medium sized, full flower, with rather loose, white petals. The blooms are produced so freely as to form quite a mass at the end of the stems.

A NEW TREE CARNATION

The carnation shown in the accompanying illustration is a new one called Aurora which obtained an award of merit from the Royal Horticultural Society recently. It is a yellow ground fancy, the scarlet flakes being both clear and well defined. This new carnation serves to show that we may soon expect as much variety among the tree or winter-flowering sorts as we now have among the border carnations which are so popular here as summer flowers. All the best winter-flowering carnations are at present self-colored as



CARNATION AURORA

for instance nearly all those of American introduction: therefore the new scarlet and yellow Aurora is sure of a warm welcome. Soon we shall look forward to having almost as many carnations in winter as in summer, and the carnation is a flower that everyone admits we can have none too many of. An award of merit was given yesterday (December 19) to Fair Maid, one that has been familiar at our exhibitions for some months past. This and Enchantress are the two finest pink varieties.

Harry H. Thomas

Dracaenas (Cordyline)

Although many years ago colored-leaved dracaenas represented almost exclusively by *Dracaena terminalis*, were extensively grown by commercial men, it is only within the last few years that dracaenas in variety of choice sorts have been largely grown for the market in this country. *Dracaena terminalis* by reason of its long service, and many good points, is not likely to be discarded yet a while, but still it cannot be denied that in beauty of foliage, grace and rapidity of growth, it is out-classed entirely by Lord Wolesley and the wonder is that this latter variety was so long in gaining recognition. *Dracaena terminalis* was grown in the past chiefly for the beauty of its foliage. Lord Wolesley has still more beautiful foliage and though it may sound strange to some, it is nevertheless a fact, that under proper conditions it is a more rapid grower and as easy of culture as *terminalis*, besides being less inclined to flower when pot-bound than the older variety. These remarks on the comparative work of the newer variety are not intended as an attempt at the depreciation of the old favorite, but to remove an impression prevailing that the

newer and more intensely colored varieties are more difficult of culture and possessed of less enduring power than the older varieties.

Years ago authorities would have it that in order to produce good dracaenas their growth had to be exceedingly rapid and in a high temperature; no doubt, plants grown in this manner were rushed into maturity rapidly, but their decline was just as rapid as their advance and in the main they were of no practical value as dwelling house plants. Contrary to this method of growing dracaenas is the mode pursued now of growing them in a moderate temperature. By this I mean a house wherein the temperature may be as low as 58 degrees in zero weather outside; of course a temperature a little higher is preferable, but dracaenas have flourished without the loss of a leaf when exposed to the temperature stated and in addition matured to good enduring specimens, six of which took first premium at an exhibition the following fall.

There are various methods of propagating dracaenas, but the most prolific and interesting method of propagating existing varieties is by root and stem cuttings. When from use or through any other cause large plants have lost their bottom leaves, cut off the top about an inch below the lower leaves; this top put into a small pot in a compost of leaf mould and sand, placing the small pot into which the top has been put into a much larger one; this precaution will keep the heavy top from shaking and will also add to the available supply of moisture around the base; when done place it either in a propagating frame or on a bench having bottom heat underneath. This disposes of the top of the old plant for four or five weeks, when it should be rooted and a useful subject again. Now for the remaining part of the stem and the thick fleshy roots. These cut up into small pieces not more than an inch and a half in length and place them close together in a flat the bottom of which ought to have a sod laid on with the grass side down; unless the box or flat is very deep no more drainage is needed. Cover the pieces to the extent of about an inch with clean sand and leaf mould, then place the box over the pipes, keeping the soil continually moist without overwatering to the extent of soaking.

The cuttings can also be put in sand in a propagating bench, but small plants rooted in a mixture of sand and leaf mould are not liable to be checked when potted as these rooted in sand alone. When the young shoots are about 3 1-2 or 4 inches over the surface they can be severed from the stock with a knife, care being taken to take only those rooted; these may then be potted into small pots and need not be cut and re-rooted again unless they get ranky, which seldom occurs if they are removed early enough at first. One piece of stock will likely send up many young plants, therefore if it is necessary to lift the pieces of stock to remove the young plants, put the stock back again, repeating the process until the stock is exhausted.

Some growers still persist in mousing the tops of old plants, which no doubt is a safe method to pursue, al-

though no more so than the other, and by no means as expeditious.

Dracaenas in all stages of growth, in order to grow well, must have moisture all around them and always a little heat underneath. As has already been said they will stand and thrive in a comparatively low temperature if properly brought up to it, but they will not thrive in a house without moisture nor without bottom heat. In order to keep the plants in a vigorous condition it is essential that they be syringed regularly from underneath the foliage as well as given frequent showers from overhead.

David McIntosh.

Forcing Rhubarb

Persons who like to dabble in market gardening for pleasure or profit, will find both in raising rhubarb indoors. Simple and easily carried out are the essentials for a good crop. The roots are dug in the fall when the ground begins to freeze, and are stored somewhere out-of-doors where they will be easy to get at when the time comes to plant. They need no protection from climatic conditions. Big, healthy four-year-old roots are best of any early or medium early large-stalked variety. Planting may be done at any time after the plants get a short rest.

The beds are made in any old cellar, pit, frame, cave, or under greenhouse benches, where the temperature will not fall below 45 degrees. The darker it is the better, as lack of light causes the plants to send up stalks with little leaf surface, just what one desires. The soil is removed to a depth of about one foot from the space desired for a bed. Then an even lay of fresh horse manure is put in to a depth of four inches—if strawy it will make no difference—followed by two inches of good loam. The plants are placed on this about one foot apart, and then filled around with any handy material, such as the soil removed at the start. Give a good watering and exclude all light possible by means of boards, old carpets nailed up, or some such method. Some people use straw or hay, thickly covering the beds, but it is not as satisfactory for it keeps the ground cold, smells bad, makes the stalks spindling, and the bed is longer coming to maturity. If any of the sides of the trench are next to walls they should be lined with boards on those sides, and hay or sawdust packed in back of these, building up a foot or so above the surface of the ground to insure keeping out the frost.

Now you may sit down and wait for the crop. Besides an occasional watering if the bed becomes dry, no further care is required. The bed will begin to bear in from one to two or three months, the time varying with vitality and size of plants, temperature of beds, time of planting, etc.

R. S. Adams.

An Old English Garden

A few days ago while turning over the leaves of "Old Time Gardens," by Alice Morse Earle, I was much interested in reading about the old gardens in New England and in the pictures that adorn its pages. There are in England of course many old time gardens and I was forcibly reminded of this fact only a week or two ago when on my annual chrysanthemum rounds in the neighborhood of our great metropolis. At Brockwell Park, Herne Hill, once a suburban home of a private resident, but now a public park for the use of the inhabitants of this rapidly increasing and populous locality in the Southeast of London, enclosed within a high, red brick wall, which bears obvious evidence upon it of its great antiquity, is the old English garden belonging to the former holder of the estate.

Like most of the public parks under the control of the London County Council a gratuitous display of chrysanthemums is held here for some weeks at this season of the year. The plants, all in the full glory of intensive culture, are staged in a conservatory adjoining what was once the family mansion of the owner of the Brockwell Park estate. Passing beyond this towards the lake by way of a gravel path down a gentle declivity the courteous superintendent leads the way to the doorway, festooned in living greenery, and ushers us into the old English garden.

The visitor who a few moments before was conscious of London's ever-growing capacity for devouring all the green fields and country lanes within its immediate vicinity is now sublimely charmed at the sudden transition from bricks and mortar to the calm repose and delightful solitude of an old time garden that might be a hundred miles away from any town or human habitation, so completely is it walled in from outside appearances.

In the middle is an old fountain, fenced in with wire work, the water of which is leisurely splashing down into a circular basin beneath. Around it are bamboos, various forms of *Iris Germanica*, ferns, *Megasea cordifolia* and the numerous other subjects forming a veritable wild garden. From the fountain radiate paths that lead in all directions. At this season of the year all the occupants bear evidence of the autumn time and early frosts but enough are left to show the visitor that a rich profusion of herbaceous plants have gaily contributed to the enjoyment of the earlier visitors. Some plants of *Chrysanthemum coronarium*, both white and yellow, are still in flower, pansies are still struggling to bloom. The bright colored *Physalis Franchetti* lends color to several otherwise dull corners while at various intervals we notice chrysanthemums, mainly of the early flowering type, still in bloom, clumps of pinks that have long since done duty, dahlias, roses, sunflowers, pentstemons, *helichrysums* and many other flowers suitable for such an old world garden.

The walls are creeper-clad in great variety and here and there are numerous trees and shrubs, hollies, box,

yews in variety, various well-known coniferi and others. At unexpected corners are quiet nooks provided with seats, arbors still decked with green, while along the numerous paths are arches at intervals over which tumble in rich profusion clematis and *Cobaea scandens*. In a few days more all will be over for frost severe and certain will obliterate every bit of color that is still remaining. But the gardener ever looks forward and while we are lamenting over the past he is providing for the future. Busy hands are planting wall flowers for the coming spring, primroses, bulbs of all kinds and plants that will bloom again when the winter days are o'er. Among the chrysanthemums we see that charming little floral gem, Mlle. Elise Dordan, a perfect little ball-like pompon of pale pink. *Chromatella*, *Roi des Precoces*, a neat little crimson colored Japanese. *Gustave Wernig*, *Mme. E. Lefort*, *Mme. Marie Masse*, one of the best outdoor kinds; *President*, *Cedo Milli*, *Ruby King*, *Wm. Westlake*, a very neat, pretty yellow pompon; *Lemon Queen*, *Mme. Pecoul*, *Julie Lagravere*, *Anastasia*, etc.

We shake hands with our friend and offer him our thanks and then turn again towards London's dark and busy streets to do our common round, thankful that in this great desert there is such an oasis where we can rest for a few moments and take refreshment that must be helpful to many others beside ourselves.

Chasman Payne

Garden Hybrids

Fifty years ago or so the plant breeder was looked upon as an irreverent meddler with nature, and even botanists complained that hybridizing experiments would only lead to confusion by upsetting the natural sequence of created things. Today all this feeling has changed, and botanists generally welcome the results of hybridism or cross-breeding recognizing that man is only carrying out Nature's own methods under cultivation in the garden. Herbert and Darwin of the past, and De Vries of today have shown us that hybridism, once the stone rejected of the builders, has now become the head of the corner. The enormous influx of hybrid orchids and of other garden plants, that is now taking place both in America and in the European continent, has done much to awaken public interest in garden hybrids of all kinds. For many years the records of progress in hybridizing distinct species or in cross-breeding of carefully selected varieties was confined to the horticultural press; but now-a-days we read in newspapers and magazines of the wonderful doings of Luther Burbank and others, and there seems some danger that popular information will get ahead of the real results. The much talked of plumcot, for example—the result of crossing a plum with an apricot—is a fact, but as a new fruit we have still to learn whether

it is any improvement on the best plum or the best of ordinary apricots.

There is too much exaggeration going on today in the case of new productions, be they fruit, flowers or vegetables, as witness the so-called seedless and coreless apple which upon investigation as to its origin recently made by the Agricultural Department at Washington has been found to date back for something like 2000 years. After all, the practical results of cultivation, selection, and hybridism, and cross-breeding are wonderful enough without any booming or exaggeration whatever. And yet the processes of improvement in the garden, so far as the crossing of species is concerned, are often experiments conducted in a rough and ready way. Of course, this is better than not experimenting at all, but certainly not enough for the realization of the best results. If a chemist, or even a cook, were to attempt the blending of drugs or materials of which they knew little or nothing by prior experiments or previous teaching, we should probably suffer from their compounds; but the majority of hybridizers often attempt the rearing of plants from parent species that are practically unknown to them.

It must strike any ordinary observer that before we can ever know the true effect that one species may exert upon another, it is necessary to know the natural amount of variation of both the species used. Thus, before hybridization is resorted to we should grow both the parent species selected from their own seed, so as to observe their character and the amount of their variation. Unless this is done, we are working in the dark, and are pretty sure to confound the effects of hybridism with what is simply natural or seminal variation.

There are in cultivation in gardens today plants like the Chinese primula, the Persian cyclamen and other flowers that, so far as is known, have never been hybridized with other species. They are simply cross-bred selections from one species instead of from two, and still they vary even more than do many hybrids between two species. It would appear, then, that it is only reasonable to experiment and find out as far as possible the range of variety in each of the two parents before we can confidently speak of their offspring as being the result of the union effected. As shown by examples like the Chinese primrose, etc., some species possess an infinite and inherent capacity for variation, apart altogether from hybridism in its true sense, while on the other hand, there are some species that practically never vary until hybridized with others.

So far as individuals are concerned, one can scarcely blame them for taking a short cut, since our days are too short for one man to obtain many results in his own lifetime. This is why the work is best done under Government supervision. The individual matters but little in a State Department, where work is organized, and can be carried as long as it is necessary. The tendency, again, of individuals is to do not what is best in an ideal manner, but what is likely to prove most profitable and this last is a contingency that a Government institution can afford to disregard. So far, without a doubt, the best results of hybridism have been obtained in private gardens, and this, too, thanks to no help from Government.

A. R. Gilbert

A New Year's Reverie

The efforts we make for any worthy object may not seem successful today or tomorrow, but they are a part of the grand work that is going on slowly but surely and no one of them can we afford to lose.

The year of 1905 has been a remarkable one in many respects in Boston, but what I have noticed most is that there has been a great drawing together of the different lines in the florist business and its allied trades. How it has been attained I am not in a position to say, but it is plain to any casual observer.

This is as it should be. The florists as a class are a genial and a happy lot of men who congregate together. The private gardener and the florist have become better acquainted with one another and are imparting knowledge each to the other, and coming together as never before; a little leaven has been put in which is leavening the whole lump. A good work has been started and with the New Year let us resolve to help it along. The millennium has not come yet, but we can by individual effort bring about something nearly as good. Grasp a brother by the hand, and give him a hand clasp, not the dudelet or society shake, but do it so that he will know that heart and hand are one.

"That man to man the world o'er
Shall brothers be for a' that."

That editorial entitled "The highest bidder," in last week's HORTICULTURE should be committed to memory by all growers and filed away for ready reference. The wholesaler who has the growers' interest at heart generally has to use great judgment in allotting flowers in times of scarcity, and it is the man who has stood by the wholesaler and bought heavy in dull times who should get the cream of the product at a fair price. The man, who, in times of stagnation (trying to lower winter prices) shows a letter from parties who perhaps are trying to unload goods by offering a winter scale of prices which the wholesaler knows his growers would not stand for, and in his judgment refuses to meet—this is the man who, having perhaps got left on his cheap contract, comes to the wholesaler at Christmas and invoked his aid, forgetting about his bunco game some months previous. This is the man that should be made to pay and that to the limit. I am glad HORTICULTURE took the stand it did, for it will help to clear the air, cement more firmly the relations between wholesaler and grower, and give a lesson to the buyer that in times of peace he should prepare for war.

Robert Ward

Our Frontispiece

Our frontispiece this week shows one of four large houses of Carnation Robert Craig as growing at the present time at Cottage Gardens where this phenomenal scarlet variety originated. Nothing more luxuriant in growth and habit can be imagined. Mr. Ward informs us that from September to November last the average product per plant was from three to seven flowers. It will be seen in all its glory at the Boston meeting.

Cocos Weddelliana

This well-known palm is a universal favorite and were it an easier subject to grow its position as a serviceable table plant would be in the front rank. How rarely one sees it in perfect condition! On the continent of Europe and especially in Belgium they are specially successful with it. Most people avoid the risks of home production and the risk also of overstocking in either case. With imported plants the tips soon go bad, leaves assume a lighter cast and growth is stunted, making the plants a ready prey to scale, quickly spoiling their symmetrical beauty. Most of HORTICULTURE's readers have doubtless had painful experience. The cause is not wholly climatic, but often for want of special treatment and suitable accommodation not always at disposal. There can be no question that this species requires a warmer temperature than most other marketable palms and should never drop less than 65 degrees at night the year round. Overpotting as well as overwatering are frequent causes of failure. The experiment suggested, and it is a tried one, is to keep the plants on the dry side in a desert-like atmosphere and especially avoiding moisture on the foliage, coupling with this equality of temperature as nearly as can be maintained; if a whole house can be devoted so much the better, but if not, a section should be marked off for culture on these lines. A heavy shade is necessary but a roller blind is preferable to that of a permanent character. The strong heat required is favorable to attacks of red spider and scale but as a general rule vigorous, healthy stock are immune. Sulphur applied with syringe is the best remedy, being preventive as well as a cure.

Immense quantities of seeds are annually exported from Brazil and usually a good percentage are of sound quality. Seed should be soaked well in water for twenty-four hours to ease the outer covering of the nut, and long two-inch pots should be used unless large quantities are in demand, when deep pans serve best. One of the causes of failure is the breaking of the seedling tap root in potting, which in nearly all cases is fatal. If in pans they should be potted up early before the tap root is too long, plunging cocoanut-fibre on a warm bottom and kept in small pots until about a foot high when an occasional watering with soot and weak liquid cow-manure is helpful, though generally this palm abhors too much feeding. As potting compost use leaf-mould and peat in equal parts with a little loam and plenty of sand, not ramming too hard or keeping the base too deep. The persistent ill-luck with this general favorite is a challenge to the grower, the winning of which may not only be a personal satisfaction but will give a lift to the reputation of this plant as a suitable subject for table or house decoration, for after all a fairly warm room with its dry air is really not against its maintenance in health and freshness for many months though of course it cannot be expected under house conditions that this beautiful palm will remain a joy forever.

Edgar Elvire

Fruit Trees in Pots

The practice of growing fruits in pots is not likely to appeal very strongly to our growers. Our atmospheric conditions are such that many of the artificial devices practiced by our English and French brothers in their less congenial climate can be done away with as superfluous here. However, there are certain advantages that may be gained which all would do well to consider. It is a quick and satisfactory method for testing new fruits, especially peaches, nectarines, apricots, and plums. Pears and apples, being hardier, have so wide a range that such culture would be of little advantage, except in special localities, but for tender fruits it is an easy and convenient means of quick testing.

The pot-grown trees will produce earlier fruit or a winter crop by judicial forcing under glass.

But the greatest benefit undoubtedly is to the tenant or to the owner of a limited area. So many of our people hire their homes, rather than own them, that the population is constantly shifting. It has been estimated that the tenant class shifts about once in five years. Hence a person with pot grown trees is independent of the landlord, for as often as he moves he can take his orchard with him.

Lastly, the man with a desire to raise something a little different from his neighbors will find plenty of opportunity in this field.

The soil for the trees is a mixture of three parts sandy loam and one part rotted manure. The trees are chosen when one year old in the nursery and potted in March or April. Nine-inch pots will be sufficiently large at first, later shifting in to thirteens. Pound the soil in firmly around the roots. After potting cut back to three or four buds, and as the new shoots grow pinch back constantly to keep the whole tree compact in shape and to cause the formation of numerous fruit buds. The first season's growth in the pots takes place out of doors. It is a good idea to plunge the pots and to let the roots grow down through the drainage holes to protect the tree if the pots become dry, something that should be guarded against.

On approach of cold weather the pots are raised and replunged in a shed or cold frame where they will get moderate and uniform freezing. After a short rest they may be brought in, gradually started, and forced at any time; or else they may be left intact until the following spring.

The second year cut back the growth one-half and continue to preserve the symmetry of the tree.

As the trees are gross feeders plenty of fertilizer must be supplied, the best being fresh wood ashes, while liquid manure is good. It is a good plan to renew the old soil around the roots often.

The trees should be occasionally syringed, and the various insect and fungus pests kept in submission.

R. L. ADAMS.

A Practical Help

We hope you will like HORTICULTURE and recommend it to your friends in the trade. We want to see on the list of subscribers every one identified with any horticultural industry. We draw no lines, but *invite you all* to help by your subscriptions, your contributions, and your approving words to make HORTICULTURE the best known and the best liked professional journal in our country. Every \$1.00 subscription sent in is a practical help to this end.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

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Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Optimistic violet growers

A good indication that the violet men are not yet dismayed by the reduced market value of their product is found in the statement that a joint order for enough glass to construct 2000 running feet of greenhouses has recently been placed in Pittsburg by the Rhinebeck violet growers.

Protection for tender plants in transit

So great is the danger and so frequent the cases of loss at this season in the shipment of azaleas and other plants susceptible to cold, even by express, that no grower can afford to assume any responsibility as to their safe arrival. Possibly the time may yet come when the extent and importance of the plant nursery trade may warrant the providing of cars slightly warmed and otherwise specially equipped for this business on regular routes. The inauguration of such a service would mean a big increase in shipments.

The value of local exhibitions

The proposal of the Toledo Florists' Club to hold quarterly exhibitions as noted in our columns of last week discloses the right spirit and if duly carried out will prove a strong factor in the popularity and prosperity of the organization. It is impossible to realize the indirect advantage to every flower and plant dealer in a community that may be derived from a series of well-managed free public exhibitions. It is essential to keep out everything tending to individual aggrandizement, keeping the club idea strictly in the foreground and relying solely on the common benefit to come from an awakened public interest in the florist and his wares.

Intrinsic value of the modern carnation

While we deprecate sudden and violent advances in prices of staple flowers as detrimental to the flower growers' industry yet we cannot but note with gratification the better values obtained for carnations of the choice grades during the last three weeks. From its

lowly antecedents, the public has persisted in regarding the carnation as a "common" flower, notwithstanding the \$30,000 and \$40,000 trumpeting, and are slow to realize the intrinsic value that the fancy flower of today represents and it may be added that a large proportion of the florists themselves are as obtuse as the general public in this respect. The market value of the carnation as a cut flower has not kept pace with the increased cost of production and if it were not for the revenue from the sale of young plants some growers would soon come to a keen realization of the fact that the average wholesale price of the better grades is entirely too low. With a fifty per cent. advance in price the year through the buyers would still be getting good value for their money and the growers a very moderate return for the expert culture demanded.

Of interest to the nursery trade

Parties receiving shipments of nursery stock at this season of the year should make prompt and thorough examination of the plants and if it appears that they have suffered injury from exposure take immediate steps to ascertain the exact cause. Stock dug early in the season or in sections where the climate is mild, while the wood is in unripe condition and the roots active, is liable to be ruined by a few days of freezing, whereas the same varieties, in dormant condition and well-hardened off, might go through a long period of extreme cold without much injury. This is especially true as regards roses. These lines are suggested by controversies and litigation over some Crimson Rambler shipments a year or two ago in which several nursery firms are involved. The roots of the roses are said to have been dead at time of delivery and the divergent views of shipper and receivers as to responsibility have engendered enmities as deplorable as the direct pecuniary loss. The time, money and worry expended in adjusting these unfortunate affairs, which are repeatedly coming up, might better be devoted to a broad-spirited consideration of ways and means whereby their recurrence may be prevented.

Improving packing methods; settling disputes

Nothing should be left undone which will tend to promote the best interests of the American ornamental nursery trade, the prospects for which are so promising in the light of the reviving popular regard for decorative garden shrubbery. The facilities for the production of high-class material are unexcelled and the country is ready to accord its support but so long as difficulties such as we have commented on in the preceding paragraph are possible the nursery trade is not rising to its opportunity. While our home concerns are wrangling over these grievances our cousins across the water find no difficulty in delivering roses and other material that come out in good condition after a trans-Atlantic voyage and sometimes a week's sojourn in the custom house, simply by puddling the roots in a thick clay mixture. On the continent, instead of resorting to legal means to obtain redress for real or fancied wrongs, dealers have established systems of adjudication by means of mutually acceptable arbitrators and the cost and the enmities of litigation are thus avoided. Can we not learn something to our advantage from these facts?

AFTER ADJOURNMENT.

Have you forgotten that subscription?

Keep your eye on the "New Offers" each week.

We congratulate the florist trade of the entire country on the Christmas spurt. It was magnificent. Keep it up.

The date for the carnation meeting at Boston is Jan. 24 and 25. It promises to be the biggest on record. The exhibition will be unprecedentedly fine. You can't afford to stay away. And the larger the crowd the better, says Boston as she hangs out the latch string.

NEWS NOTES.

A slight fire in the greenhouse of R. O. Cheney, Sr., South Manchester, Conn., caused the loss of many of the plants by water and exposure on Christmas night.

The John H. Caverly residence and greenhouse plant in Chelmsford, Mass., have been purchased by A. Sturges of Boston for investment. There are 23,000 feet of land; the greenhouse is 18x120.

The Boston park commissioners have been notified by William H. Fairbank, executive commissioner for Massachusetts, that the Boston Park Exhibit was awarded a gold medal at the Lewis and Clark Centennial Exposition at Portland, Ore.

A fine new conservatory has just been completed by the Burnham-Hitchings-Pierson Company at West Manchester, Mass. The gardener in charge is Eric Wetterlow, who made an excellent record with D. F. Roy at Malden, Mass., before assuming charge of this Lester Leland estate.

Fire broke out in the boiler room of the greenhouses of J. N. Champion, Ellsworth avenue, New Haven, Conn., on Saturday evening, Dec. 30. The shed and an adjoining greenhouse were destroyed, and the contents of the other greenhouses were damaged to a considerable extent. The loss is estimated at \$5000. There was no insurance on the property. Two valuable dogs were also lost in the conflagration.

The Mt. Tom reservation commissioners of Holyoke, Mass., have decided to take, under the right of eminent domain, the 225 acres on the mountain needed for a park. This, with a few acres on the west side which they anticipate can be purchased without condemnation, comprise all the land required for park purposes. The commissioners asked for an appropriation of \$20,000 from the last legislature and received half this amount. This, it is anticipated, will be sufficient to pay for the land now taken.

OBITUARY.

Thomas C. Mellen of Weymouth, Mass., aged 80, passed away on Sunday, Dec. 24, after a long illness.

Col. M. V. B. Chase, for many years a member of the firm of Chase Bros., nurserymen, Rochester, N. Y., died at the Augusta House, Augusta, Me., on Dec. 29 of pneumonia.

William Henry Washburn of Foxboro, Mass., died suddenly on Dec. 27, aged 67. Mr. Washburn has supplied flowers to the Boston market for many years. He leaves a wife, two daughters and a son.

Louis Lang, Sr., of Buffalo, N. Y., died at his home, 271 North Division street, on Dec. 26. Mr. Lang came to this country from Wurtemberg, Germany, 45 years ago, and opened a florist's store at 250 Division street, where he has conducted a successful business for nearly thirty years. Mr. Lang is survived by his widow, two daughters and two sons.

CALIFORNIA NOTES.

As the result of a destroying blight the crop of potatoes and other vegetables in New Zealand and Australia was almost a total failure, and as the colonials must have these products the loss of the Antipodean farmers is a gain for the California growers. The last steamer out for New Zealand and Australia carried a cargo composed largely of the products of California soil. There were 6600 sacks and 3000 crates of potatoes, 7500 boxes of apples, 5000 boxes of oranges and 875 boxes of lemons, also tons of dried and canned fruits.

The planting of trees on the military reservations about San Francisco harbor is in progress. For the department rifle range at Point Bonita 750 evergreens, 1000 eucalypti and 600 shade trees have been shipped. The forester at the Presidio is having experienced civilian employees digging up young seedlings and shoots in the wooded area of posts for shipment to other reservations. Squads of enlisted men from Fort McDowell will be sent to work under the direction of the forester in planting these and other trees that will be shipped from the nursery at the Presidio, on the reserve at Fort Baker.

BUSINESS CHANGES.

Salveson & Co. is the name of a new firm doing business at 426 E. Monroe St., Springfield, Ill.

K. E. Balcom has taken a half interest in the business of Edwin S. Corey at Northboro, Mass., and hereafter the firm name will be Balcom & Corey.

The firm of A. Leuthy & Co., Roslindale, Mass., has been dissolved by mutual consent, and the business will hereafter be conducted by Mr. A. Leuthy, Mr. D. Lumsden retiring.

A CORRECTION.

Some errors in price quotations as given in advertisement of Bobbink & Atkins last week are corrected, and appear in this issue as originally intended.

WHOLESOME CHESTNUTS.

Prune and tie in peaches and nectarines.

Anything that requires bottom heat to root will better be put in now, when that agency is most active.

Put in all the colens cuttings you can get from the stock plants; if any have mealy bug on them throw them away.

Wash all the pots and count them after they are washed to see how many will be needed; don't wait until potting time to order the pots needed.

Have you seen Nephrolepis Whitemani? If not, you have still something worth while to see. It will be given to the public in about eight weeks.

If you have anything that is new and good, don't be backward in advertising that fact. It is not at all likely that people will advertise to pull the fact out of you.

Several odd things in seeds may be sown now to advantage, such as antirrhinums, cauliflower, celery, hollyhocks, begonias, asparagus plumosus nanus and Sprengeri.

What a gorgeous display can be had from plants of Nicotiana Sanderae in the new colors along with the red of last year; a display that will be uninterruptedly continued at a cost within the reach of all.

Don't belittle what your neighbor may have in the false hope that this will make yours appear any better. Leave the other fellow to mind his own business, and most likely he will be heard from in due season, if he is well.

Look over every palm, and if scale or mealy bug is visible use soap and sponge. If you are determined to wield a brush in the performance of the work, do so with care, remembering that the fronds or leaves are not hard wood boards.

Gardenia plants should be in three-inch pots before being planted in the bench; if these are wanted to bloom early in the summer, the sooner they are in benches the better. Don't plant them very close together, and don't make the soil too rich, for if they are planted close to one another they will get almost matted before summer, and if the soil is too rich they will likely go on growing and never think of blooming.

PERSONAL.

H. Leroy Sawyer of Clinton, Mass., left on Monday, Jan. 1, to take a position in Jacksonville, Fla.

S. B. Parsons, Sr., the eminent nurseryman, is nearing his end at his home in Flushing, N. Y. He is 87 years of age.

Among the women who have made a success of floriculture is Mrs. H. E. Smith of Berlin, N. H. Starting in a small way some thirteen years ago, she now has about 5000 square feet of glass. Two years ago, Thomas Gill, who had previously been in her employ, became a partner in the business, and the firm name is now H. E. Smith & Co.

NEWS OF THE CLUBS AND SOCIETIES

AMERICAN CARNATION SOCIETY.

The fifteenth annual meeting and exhibition of this society will be held in Horticultural Hall, corner of Huntington and Massachusetts avenues, Boston, Mass., Jan. 24 and 25, 1906.

Address all exhibits to William P. Rich, secretary, Horticultural Hall, Boston, Mass.

Express charges on all exhibits must be prepaid.

Special tables will be provided for exhibits not intended for competition.

All entries must be forwarded so as to reach the secretary, Albert M. Herr, Lancaster, Pa., not later than Wednesday, Jan. 17. Exhibitors from a distance will please note the date and mail accordingly, as a charge of \$1 for each variety entered will be made for those not entered as above requested.

For exhibits other than carnations arrangements must be made with Wm. P. Rich, secretary, as per above address.

The society provides vases of uniform size for exhibitors' use respectively for 100, 50 and 25 blooms. It is obligatory upon exhibitors to use these vases in classes A, B and C, and for all entries for certificates of merit. In all other classes exhibitors have the option of using the society's vases or providing their own, as they may elect.

The premiums up to Class E, inclusive, are the same as those of last year. The new classes are as follows:

Class F—Best general display of Commercial Carnations. No restrictions as to color—but variety must have been disseminated prior to April 1, 1905; 50 blooms to be shown to a vase, and display is not to exceed twenty varieties. Vases from this collection are not allowed to compete in any of the other classes. First prize, \$50; second prize, \$30; third prize, \$20.

Class G—A. H. Hews & Co., Inc., silver cup valued at \$25 for the best collection of carnations, 4 varieties, 25 blooms of each, to be shown in separate vases—either seedlings or named sorts and no restrictions as to color.

Class H—Thomas F. Galvin, silver cup to value of \$25 for 8 varieties of carnations, 25 blooms to a vase.

Class I—W. W. Rawson & Co., silver cup valued at \$25 for 3 varieties of carnations, 50 blooms to a vase.

Class J—R. & J. Farquhar & Co., silver cup valued at \$25 for the best 12 blooms of one variety. Open to private gardeners only.

Class K—Schlegel & Fottler Co., \$15 for the best vase of 100 blooms dark pink carnations.

Class L—Wm. Nicholson, \$10 for the best vase 50 blooms dark pink carnations.

Class M—Patten & Co., \$10 for the best vase 100 blooms variegated carnation, Mrs. M. A. Patten type.

Class N—The Gardeners' and Florists' Club of Boston, two prizes, 1st, \$15; 2d, \$10, open to private gardeners only. For best three vases of three varieties, 25 blooms to each vase.

Papers will be read at the meeting as follows:

Carnations From a Retailer's Point of View, by Thomas F. Galvin, Boston, Mass.

Carnation Breeding, by Prof. H. F. Hall, Durham College, N. H.

Carnations in the Rocky Mountains, by J. A. Valentine, Denver, Col.

The complete official schedule of premiums, rules and regulations has been issued and copies may be had on application to the secretary, A. M. Herr, Lancaster, Pa.

The usual excursion rate of one and one-third fare on the certificate plan has been extended by the railroads. When purchasing ticket to Boston ask the ticket agent for a certificate for attendance at the meeting of the American Carnation Society, Jan. 24 and 25, 1906.

WORCESTER COUNTY (MASS.) HORTICULTURAL SOCIETY.

The program for the winter meetings is out and among the subjects of importance to be treated by the various speakers are the following: Jan. 4, "Horticulture, Past, Present and Future," O. B. Hadwen; Jan. 11, "Orchard Insect Pests and Modern Methods in Spraying," George T. Powell; Jan. 25, "Ornamental Trees and Shrubs," J. Woodward Manning; Feb. 15, "Herbaceous Plants," Edward W. Breed; Feb. 22, "Vegetables for the Home Garden," J. Lewis Ellsworth. On March 14 and 15 the Massachusetts Fruit Growers' convention will be held and on the latter date Prof. F. A. Waugh will speak on "The Results of Some Experiments in Pruning."

PITTSBURGH AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The meeting held on the evening of Jan. 2 was one of the pleasantest of the season. Possibly the reason for it may be found in the exceptionally good holiday season, in which all the trade shared. There was a variety of exhibits. H. S. Price, gardener for G. M. Laughlin, showed an exceptionally fine strain of Veitch's primulas, and some long-stemmed tulips, which he gets by covering the pots thickly with moss and letting the tulips force their way through. The Pittsburgh Florists' Exchange had a vase of Queen of Edgely roses. The Pittsburgh Cut Flower Co. had an interesting variety of exhibits, including the Mme. Cusin rose, which they prefer to the Bride or Bridesmaid, on account of its freedom of growth and better keeping qualities. A vase of the Bon Silene rose in bud was shown. The attention of the club was called to some very fine sweet peas, but bunched without any foliage, to the detriment of the grower's purse.

Five new members were elected. The nomination of officers for 1906 resulted in the ticket for 1905 being put in the field, with the exception of President Langhans who, to the great regret of the club, absolutely refused to accept a renomination. Jno. W. Jones, foreman of Schenley Park conservatories, received the nomination for president.

Carnations will be the subject of the February meeting of the club.

H. P. JOSLIN.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next meeting of the club will be held on Jan. 16, at Horticultural Hall. The newly elected officers will be installed, and will make addresses. Messrs. M. A. Patten, William Nicholson and Peter Fisher will, it is expected, speak on the carnations of the past, present and future, respectively. A number of new varieties will be on exhibition, and there will be other attractive features.

As this meeting just precedes the convention of the American Carnation Society, important matters pertaining to it will be discussed, and a large attendance of members is hoped for.

W. N. CRAIG, Secretary.

CLUB AND SOCIETY NOTES.

The annual ball of the Wholesale Florists' Employees will be held at the Amsterdam Opera House, 344 West 44th street, New York, on Saturday, Jan. 13. The price of tickets is within the reach of all.

On Wednesday, Jan. 10, the gardeners and florists of Madison, N. J., will have their annual smoker. Extraordinary preparations are being made to have this affair beat the record—something not easy to do.

There is a movement on foot to form a horticultural association in Fairfield County, Conn., and all those interested in the same are requested to send their names to Charles W. Neth, Ridgefield, or Frank E. Conine, Stratford, Conn.

PHILADELPHIA NOTES.

George D. Clark of the Henry A. Dreer Company was taken suddenly ill in New York, December 23rd. He has been confined to his home in Philadelphia since, but at last accounts was improving.

Turnford Hall begonia is a pretty flower but it is not a seller like Lorraine. "It will sell in a made-up basket with the pink one" says Edwin Lonsdale. Which is severe from such an optimist.

Euphorbia fulgens (jacquiniaeflora) has been considerably in evidence at the fashionable flower stores this season. There is room for more of this good old favorite. Like the poinsettia it is coming into popularity again.

Mr. Darlington, of the Burpee Seed Farms at Doylestown, Pa., presented his views of "California and its Climate" at the last meeting of the Florists' Club of Philadelphia, Jan. 2. Albert M. Herr of Lancaster, Pa., will give a review of the Boston show at the February meeting. This club intends to post its delinquents on the bulletin board from now on. We had great faith in laws, but are generally "agin" enforcement.

Dear Sirs:—

I find I am short No. 14, Vol. 2, of Horticulture, and would ask you to send me a copy of the same by mail, as I wish my files of this increasingly good horticultural paper complete.—M. J. W.

MOVING A LARGE OAK.



James Garthly, gardener for H. H. Rogers, Fairhaven, Mass., has completed the task of moving a large English oak, for a distance of 100 feet, to a more favorable position upon the lawn.

The operation was performed by digging around and under the tree, placing 12-inch beams under the ball and raising the mass and drawing it to its new position by means of screw jacks and windlass. The tree has a diameter of 27 in., a height of 40 ft., and spread of branches 45 ft.; the estimated weight is fifteen tons.

In lifting the tree it was found that about four feet below the surface of the ground was a bed of granite which cropped up nearly to the surface, about six feet from the trunk of the tree on three sides; while on the fourth side, four feet from the tree was a cemented wall. Thus the root area was circumscribed; for with the exception of eight comparatively small roots which ran out to a distance of thirty feet into the lawn, but which carried no feeders except upon the extreme ends, it appeared that the tree had grown in a basin; and it was lifted with practically no disturbance of its root system. The eight roots spoken of were carefully unearthed, wrapped in hay and hung up in the tree. The weather has been favorable for the operation and the eventual success of the work will be of great interest to all who are interested in arboriculture.

The moving of this fickle tree with the chances of success, brings to mind the subject of the value of *Quercus Robur* as an ornamental tree. When grown as a specimen or lone tree under favorable conditions the sturdy limbs and majestic form of the *Quercus Robur* justify its claim to the title of King of trees.

As an ornamental tree in Massachusetts, it is not without its failings inasmuch as it suffers from the effects of extreme cold weather. The trunk

invariably, and sometimes the larger limbs, split, causing an unsightly suture or protuberance which detracts somewhat from the beauty of the tree. When the thermometer registers near to 10 below zero the cleft in the trunk opens so wide that a stick the thickness of a man's finger may be inserted, and closes with the return of warmer weather. The cleft extends to the heart of the tree rendering it useless as timber.

Some authorities give the probable life of the English oak as fifty years. But if planted upon well-drained soil (for in wet or swampy places it will not do well), we may reasonably hope for better things than this. The tree which Mr. Garthly has moved was grown from one of a number of acorns brought from England by the late Warren Delano, of Fairhaven, in the fall of 1866. A number of seedlings were raised and at 2 or 3 years old were transplanted in their present positions; none of these trees at the present time show signs of deterioration.

Upon a neighboring estate there are a number of English oaks planted by the same Mr. Delano, the planting of which was of an earlier date, as they did not spring from the acorns brought over in 1866. Two or three show evident signs of decay but among them are several fine trees one of which has a diameter of 29 inches and a spread of branches of 65 feet and appears to be in the best of health.

The *Quercus Robur* in this country is a rapid grower and quickly develops a fine shape and if the life of it be only fifty years I think it will compare favorably with many other imported trees; but if we would plant for posterity or would duplicate the veteran oaks of Merrie Sherwood we must rely upon our native oaks.

Thomas White

CATALOGUES RECEIVED.

Elm City Nursery Co., New Haven, Conn.—Trade price list of surplus stock.

Jensen & Dekema, Chicago, send out a folder with price list of rooted-cutting carnations for season of 1905-06.

Boddington's Seeds, Spring 1906, is the title of a very artistic illustrated catalogue received from Arthur T. Boddington, New York City. The cover is a departure and a strikingly good one.

From George E. Dickinson, 1 Broadway, New York, comes the most beautiful calendar of the season. The Children of the Prairie, with selections from Hiawatha, are artistically portrayed in rich colors. It is a gem.

Wm. Elliott & Sons, 201 Fulton street, New York—Annual seed catalogue, 60th issue. Has a handsome colored cover, is full of the cream of seedsmen's stock, and offers a tempting list of flower and vegetable seed novelties.

Joseph Breck & Sons, 47 to 54 North Market street, Boston. Annual descriptive catalogue of high-grade seeds. A comprehensive list, including regular stocks and novelties in flower, vegetable and forage seeds, agricultural implements, bulbs, poultry supplies, fertilizers and everything that horticulturalist or farmer can wish for.

Cottage Gardens Co., Queens, N. Y.—Peony catalogue for fall, 1905. A price-list of the unsurpassed collection under culture at Cottage Gardens, with full cultural directions and advice as to most desirable varieties for all purposes. Also the Cottage Gardens Nursery Book for 1905-06. A very complete list of hardy ornamental trees, shrubs and herbaceous plants.

J. M. Thorburn & Co., New York. One hundred and fifth annual catalogue of high-class seeds. Few houses in this country can point to 104 years of continuous existence and prosperity. The catalogue now sent out is characteristic of this well-known house, sterling from cover to cover. An artistic conventional arrangement of carnations adorns the first cover, and on the other outside is a colored plate of Noroton Beauty Potato.

GREENHOUSES BUILDING AND PROJECTED.

North Woburn, Mass. Adam Foster, one house.

Auburn, Me.—Charles E. Shackley, one house.

Stratford, Conn.—C. D. Mills, addition to house, 70x20.

Manchester, Conn.—John Cheney, one house.

LIST OF PATENTS.

Issued December 26, 1905.

808,464. Fruit Cutter and Pitter. King T. Lynn, Fresno, Cal., assignor of one-half to A. Mocker, San Francisco, Cal.

THE IDEAL COUNTRY HOME FOR THE MAN OF MODEST INCOME

A paper by Oglesby Paul.

Read before the Society of American Florists at Washington Convention.

No doubt many of you will laugh at the title of my paper, "The Ideal Home" and yet seriously how many people have ever thought this subject out and reached a definite idea. Most people I have found are like sheep in their home making, following where others lead, and judging from the evidence at hand the leaders usually wore blinders. Take the average suburban settlement for example, where the properties are an acre or less in extent, and it is of small places only that I shall speak. The houses in such places are usually comfortable and attractive now, thanks to the skill of our architects, and the real estate man may usually be trusted to see that they have all modern improvements of water supply, drainage, lighting, good roads and the like, of the necessities as we call them of modern life. The land, too, has been improved, the roads are shaded by trees and the gardens are neat lawns with here and there a tree or clump of bushes. So far, so good. But after all does this represent the ultimate perfection of home making? The houses are vastly more home-like and interesting than those of thirty years ago, almost as homelike as those of our grandfathers' day some malicious critic would say, but the gardens are still woefully bare and dull. Think of what one can do with a half acre, what a paradise some half acres are, yes, and what paradises they so often were in our grandfathers' day, and then wonder at the bare half acres you see today. Surely the house and grounds together make the home, and the grounds even more than the house should reflect the personality of the owner. Study and the mental picturing of your grounds as you would have them look will alone make this possible. And then remember that planting, and once again planting, is the secret of success. How many handsome houses do you see in a day on lots bare of individuality and interest, dotted with a few trees and scattered bushes which might be made beautiful by intelligent planting. The passerby on the highway can run his eye over the entire estate and take in at a glance everything save possibly the kitchen door in the rear. What privacy is there left in such a home?

The plot we will assume is rectangular, without features of any sort and nearly level. The house faces west towards the street and stands some fifty feet back from it. To mark the separation from the street we will carry a hedge of privet across the front, and lead a walk directly to the front door from the street. By screen plantings of bushes from the corners of the house we will cut off the rest of the place from the public eye which must be content with a view of our front yard and no more, this much we concede to the general good. (And here I know there are some who will say I am conceding too much and should shut the public out altogether with a high wall; however, walls whether good or bad cost money that we need for more important things). Either side of my walk I would have a little lawn and back of it next the margins irregular enclosing borders of shrubs. Stout coarse growers are not

wanted or they will so outgrow our space, but there is wealth of material at hand for our purposes. In the corners where height is needed might be forsythias, those golden glories of the spring, preferably only Forsythia Fortunei and suspensa, as viridissima is too coarse and Sieboldi differs but little from Fortunei. Of the viburnums we can find room for plicatum (the Japanese Snowball) and opulus (the single type), the old bush cranberry of our grandfathers. The weigela, especially the newer varieties such as Eva Rathke may find a place, as also of the bush Lonicera tartarica and bella candida, charming for their bright fruits in July, and fragrantissima for its perfumed flowers in early spring. As lower growers with these would be the lavish tribe of Rosaceae, Spiraea Thunbergii or arguta, the bridal wreaths most lovely of spring-flowering bushes, with the more vigorous Spiraea Van Houttei for later bloom and perhaps in a pocket in front of the border the dwarf Spiraea Anthony Waterer and Spiraea salicifolia. Rosa rugosa alba and Mme. Bruant deserve a place, and if we can get it, the new rugosa alba repens. The list of roses should include our native Rosa lucida, Mr. Dawson's new lucida alba, Rosa nitida, that hedge of thorns, Rosa Caroliniana, the tall swamp rose, and Rosa setigera, the wild July blooming rose of the prairies. Ribes sanguinea and aureum, the red and yellow currants, Rubus deliciosus and Exochorda grandiflora (the pearl bush) are worthy of places. The old-fashioned Spiraea prunifolia with its wealth of double white flowers invaluable for cutting will delight you if tucked in behind some such spreading grower as the dwarf privet (Ligustrum Regelianum) to soften the effect of its stiff habit of growth. The althea, its companion in old door yards should be included, especially the red and white varieties as they occupy little space and bloom in midsummer when few shrubs are in flower. Of dwarf spreading bushes for the foregrounds of these borders we have Berberis Thunbergii, Ligustrum Regelianum and media, the latter a seldom planted but valuable form of ovalifolium of dwarf growth and an abundant bloomer, Hydrangea paniculata grandiflora and quercifolia (interesting in its semi-prostrate habit, handsome leaves and graceful heads of flowers). A corner, too, may be found for the climbing hydrangea, Schizophragma hydrangeoides, and where it can be trained over the side of the building there are few plants more handsome. Then where we wish to bring the shrubbery down to the grass line without that harsh margin common along shrub beds we have a charming plant of low stature. Deutzia gracilis and Lemoinei, Hypericum aureum, prolificum and Moserianum, Xanthorrhiza apiifolia, Euonymus obovatus and many more. Still further to break up the stiffness of the bush forms a plant of bittersweet, Celastrus scandens or the Japanese Celastrus articulata, and Lonicera Halleana are invaluable rambling over the ground or mounting on the nearest bush, every breeze sweeping their graceful outstretched tendrils to and fro in the air. In the grass near the walk there is space for a small flowering tree or two such as the double scarlet thorn, Crataegus oxycantha rubra fl. pl.,

the English thorn, C. oxycantha, the white thorn of Milton, the golden shower tree (Laburnum), the pink dogwood, Cornus Florida rubra or the like. For detail in the shrubberies there is an array of interesting seldom-grown bushes for some of which we can find space. Styax Japonica, Symplocos crataegoides (a hardy bush, bearing bottle-brush white flowers), Caryopteris mastacantha (the blue spiraea of the trade list), Pyrus Japonica for its cheerful red blossoms so early in the season, Prunus amygdalis, the flowering almond, Rhodotyus kerrioides for its neat habit, clear white flowers and black fruits, and Kerria Japonica, preferably the old single form, as its growth is better and flower more graceful.

Now let us pass from the front doorway through the screen planting into the wild garden which lies on the south side of the house, shut out from the public gaze by those screening bushes. It will be simply treated, consisting of masses of wild flowers and rock loving plants through which we pass by a trail that divides into two winding walks. The grading would be that of a little vale, the ground rising at the sides, forming slopes which are to be clothed with the rambling, sprawling bushes and plants found in the wild spots such as the brambles, Rubus odoratus, incisus and dumetorum, struggling down between taller lycium, symphoricarpos and sambucus. The back ground would be of such things as Rosa multiflora and canina, Cephalanthus occidentalis (the button bush of our Northern swamps which vies with the sambucus and clethra to make glorious the bogs in midsummer). The feathery Tamarix, Eleagnus multiflora, Berberis aquifolium, Andromeda speciosa, Fendlera rupicola, Robinia hispida, Rosa spinosissima and many others, and on the irregular sloping foreground tufted masses of heather, Erica vulgaris, Iberis sempervirens and Tenoreana, Daphne cneorum, junipers of various kinds from the creeping prostrate and sabina to the upright japonica, sinensis and virginica, yuccas, Azalea amoena, Spiraea ulmaria, palmata, tomentosa and aruncus, carpeting the ground in the inter spaces with Euonymus radicans, Lathyrus latifolius, the everlasting pea, broken by tufts of Armeria maritima, Orobis vernus, Arabis alpina, Alyssum saxatile, Aquilegia canadensis, Oenothera Youngii, biennis, the white flowered speciosa and the aster-like O. Miscariensis.

The walks might be of soil and leaves, pine needles or tan bark and as a grass edging would be stiff and wasteful of room as well, carpets of moneywort-Lysimachia nummularia will form a delightful irregular margin and when in bloom is covered with its yellow flowers. By sinking an old hog's head in one corner and making an occasional use of the hose we have the ground work of a water garden where Nymphaeas may bloom amid iris, myosotis, mallow (Malva moscheutos), and lythrum with a backing of the water side cephalanthus, clethra and arundo.

From the wild garden by an entrance arched with clematis and wistaria we pass into the flower garden occupying the rear or eastern portion of the lot. Here all is formal. A neat hedge of privet encloses it and the space within

is laid out in straight walks and rectangular beds filled with flowers. Here the old-fashioned hollyhocks, digitalis, delphiniums, tiger lilies, iris, roses, peonies and phloxes reign supreme, as they have for centuries in such gardens before us. The new and improved forms of each let us have by all means, especially in the phloxes, where the stride both in purity of tone and size of flower is amazing. Let us also have roses in abundance, hybrid perpetuals, hardy teas and hybrid ramblers, the latter best grown with some support. Harrison's yellow is an especial favorite of all rose lovers. The spaces left we can fill with such plants as the poppies of many sorts, perennial and annual. For blues we will have *Baptisia australis*, distressingly short-lived though its lilac flowers be, *Iris germanica* and *siberica*, the latter most decorative of irises when well-grown, though *Iris Kaempferi* flowers excel it in size and depth of coloring; *Campanula grandiflora*, *rotundifolia* and *persicifolia*, *Aquilegia coerulea*, *Veronica longifolia subsessilis*, hardy asters and *Stokesia cyanea*. In pinks and whites are *dianthus* group, *D. arenarius*, *barbatus* and *deltoides*, *Lychnis viscaria* fl. pl. *Pyrethrum hybrid* and *uliginosum*, *Achillea ptarmica*, the Pearl, *liatris* and *Sedum spectabile*. For yellows there is an abundance to choose from in the composite family alone, beginning with the early flowering *Doronicum excelsum* and the coreopsis, and ranging through *Rudbeckias hirta*, *laciniata* fl. pl. (Golden Glow), and *speciosa*, and ending with *Helenium pumilum* and *Helianthus Maximilianus* and *orgyalis*. *Aquilegia*, the California hybrids of the yellow *A. chrysantha*, also deserve a place, and I have not even touched on the wide field of annual flowers and tender plants which are the life of a garden. Arbors and trellises against the house will give space for growing wisterias, climbing roses, actinidias and other vines, and if there be a board fence along the back of the lot it may be made beautiful with clematis in many sorts, the rambling yellow *Jasminum nudiflorum*, one of the spring's pioneers, briar roses, annual cobaea and the grand old passion flower *Passiflora coerulea*. But let us pass through to the fourth or north side of the house which if the building be well located will be but a narrow strip of land twenty-five or thirty feet wide. Through it the walk to the kitchen door should run the space being least valuable here. That leaves room enough still for two shady borders in which to plant shade-loving shrubs, flowers and ferns. Of bushes there are the native *Symphoricarpos vulgaris* and *racemosus*, of value chiefly for their pink and white berries, the latter *S. racemosus* was the wax berry of colonial days. For brightness of flower there is nothing to equal the azalea which will do nicely in such location, and *Azalea nudiflora*, the common wild pink azalea of our woods, is as charming as any. These azaleas may be effectively grouped and grown to best advantage when planted among evergreens whose foliage will hide the bare shanks of the azalea which, like the Sultan of Sulu whose costume was limited to a stove pipe hat and a red cravat, have all their beauty on top. In the foreground would be the low grown forms, the lovely pink *A. Vaseyi*, just the shade

of the old Daybreak carnation, the darker *Azalea nudiflora* and the large flowered Ghent and Mollis hybrids, shades of orange and yellow chiefly. Behind them the taller *A. arborescens*, *viscosum* and *calendulacea*, the latter the flame azalea of the Southern mountains. Space, too, there is for the pretty lavender *Rhodora canadensis*, a close kin botanically to the azalea. For evergreen plants to associate with them there are our native *Rhododendron maximum* and *Catawbiense*, quite cheaply obtained and both very beautiful. So, too, of the native *Kalmia latifolia*. For variety a few plants of the dearer hybrids are worth trying if your purse can afford it, though they are thankless fellows, apt to repay your greatest pains by succumbing to the first cold winter. More satisfactory are the *Andromeda japonica* and *floribunda*, especially the former which is far too seldom grown. *Leucothoe Catesbei*, a low spreading bush with leathery leaves and racemes of white flowers, is charming and easily handled as is also *Ilex crenata*, the Japanese holly. Conifers we do not need as the space is insufficient for their proper development and they succumb so often to the dust and soot of the suburbs. Here and there we would tuck in clumps of ferns, tall *Osmunda cinnamomia*, *Claytonia* and *regalis* in the dampest places, the hay-scented *Dicksonia* and graceful bracken (*Pteris aquilina*) where the sunshine enters most often, and under the cover of some bushes the evergreen Christmas fern (*Aspidium acrostichoides*), the fragile *botrychium* and the beech fern (*Pneopteris hexagonoptera*). No bare ground should be seen but in its place mats of English ivy, ground gill (*Nepeta glechoma*), *Rosa Wichuraiana*, and *vincas*, their flatness broken by taller clumps of Solomon seal (*Polygonatum biflorum*), trilliums, *Scilla bifolia*, primulas, *uvularias* (the wood lily), the woodland golden rod and aster (*Solidago caesium* and *Aster multiflorus*), lilies of the valley and other flowers of our own or European forests. Such an half acre is by no means an impossible dream, nor is there fear that it will look cramped and crowded for we have carried the division of the house into rooms out into the garden. And it need not cost a fortune in the making if the owner will go systematically about it and use his opportunities. The soil, of course, must be well prepared by deep digging and be well enriched. Many hours must be spent in gathering and establishing the plants, whether they be bought in nurseries or collected in the woods and fields. But after all, many a man spends almost as much money on a useless stone wall along his property front, a wall too low to screen either from within or without. And will it not be worth while? Not a moment of the year will be without its interest in such a garden home from the first breaking of spring when the bulbocodium is pushing its green nose watching for a warm day to open its pink flowers with their odd strap-like petals, every day in haste to profit by the opening of the season, and not long after the white and lovely violet colored form named after Sir Walter Scott. Meanwhile by the pool our old friend, the skunk-cabbage (*Symplocarpus foetidus*), a sort of stout matronly old party, as it were, who rises be-

times, has been up for some time and no doubt may be in full bloom already, though this is a matter of interest more particularly to the *symplocarpus* itself, as the blossom is quite hidden in the purple green sheath. Then comes a long array of tender little things, bulbous for the most part, headed by the cold blue squill and its companions, the warmer colored *Chionodoxas Lucilliae* and *gigantea*, the "glories of the snow" of our fathers, almost as early are the woodland flowers, the wind and rue anemones (*Anemones nemorosa* and *Thalictrum anemonoides*), together with the bloodroot (*Sanguinaria canadensis*) and the dog-tooth violet (*Erythronium Americanum*). Snowdrops in a bold group in one corner follow, and behind them would be rising the stout stems of the Old Crown Imperial (*Fritillaria imperialis*). This plant is one of the marvels among spring flowers. Like a giant among pygmies, it shoots up in a few weeks and then bursts out into a great head of orange lily-like flowers. No, there is one spring bloomer that is yet more remarkable for its length of stem—the *eremurus*—think of finding in May a newly risen stem five feet high, supporting a spike of snowy flowers nearly a yard stick long. One thinks at once of the magician and his marvelous seed. I always feel like taking off my hat to the *eremurus*. The shrubby things in the door yard begin to be heard from, *spiraea*, *cydonia*, barberry vieing with the narcissus and tulip in the wild garden for our interest and presently the place is a veritable fairy land of life and color from the unfolding leaves of the tiny *Nymphaea pygmaea* in the pool to the nodding trumpets of the *tecoma* mounting skyward on the walls. And so it goes until frost cuts off the lingering flowers of *chrysanthemum*, *geranium*, *dahlia* and aster. Remember, too, I have not exhausted, but just touched upon the field open to him who cares to try my receipt for a garden home.

CINCINNATI HOLIDAY REPORT.

The demand has been quite brisk during the past week, but prices are slowly tending downward. Roses and carnations continue to show an improvement and are well worth the price asked. Green goods are plentiful with the exception of asparagus, especially the Sprengeri. Business for New Year's was fully up to expectations, and all are well pleased with the holiday trade, and the growers have already begun Easter preparations.

That the holiday business this season has surpassed all previous records there can be no doubt. I find that about 10 per cent. increase over last year is a fair estimate. Some report more, some less, but all join in saying that they could have done more had they been able to get the stock wanted. It has been charged that the dealers shipped the bulk of the good stock and that the local buyers were obliged to take what was left or depend on other markets for their supply. To supply the demand for the holidays has long been an unsolved problem, but the solution is apparently easy, for a good salesman has but little difficulty to induce his customers to buy a nicely filled pan or basket of plants instead of a dozen Beauties or a box of cut flowers if the latter are not fresh and good.

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City and County of New York, that they
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scriber, the duly appointed assignee of said
corporation for the benefit of its creditors,
at his place of transacting business, No.
97 Water Street, Borough of Manhattan,
City of New York, on or before the 10th
day of February, 1906.

Dated November 17, 1905.

FRANK H. HENRY,
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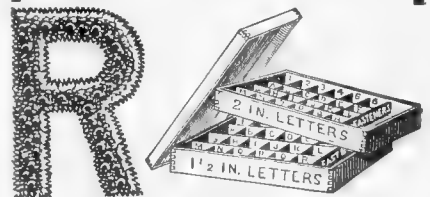
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Cut Flower Market Reports.

BOSTON Country and suburban buyers are beginning to find fault with the wholesale prices of flowers, which means that business is slack with them. It is slack in city circles as well, and the receipts of flowers being rather heavy in wholesale markets, accumulations are inevitable, and so the prices must go down, whether it pays or not. There has been no sensational tumble, as was the case last year, but it has already gone below a reasonable level on some things as, for instance, Enchantress carnations, which bring with difficulty anything over \$4 per 100, although the superb stock offered must have cost more than that to produce. In roses, the medium grades are in demand in a ratio of about nine to one as compared with the specials which are represented in the top figures given in our market quotations. The wholesalers made a struggle on New Year's day to hold American Beauty specials at \$75 per 100, but the final result is that \$50 is the outside figure. Boston is not a very elastic market, and it does not take much, after the country trade stops buying, to choke the channels and compel unloading at sacrifice rates.

With ideal spring weather for Christmas, a rushing business was done. Plant trade was exceptionally good, with mild weather for delivery. Stock was a little scarce at the wholesale house at the beginning of the week, but on Friday a good quantity was had, and shipping orders were rapidly filled. Select roses were about

the only scarce article, especially long stem Liberties; as for ordinary and Teas, any amount could be had. Beauties were leaders, and in fairly good demand, with prices ruling high. Violets were held off until the latter part of the week, when they came in large quantities, and a good many were carried over, which were sold far below the list price. Carnations of finest quantities were had, Enchantress, Red Lawson, Flamingo and Cardinal being leaders, and brought good prices. Narcissi, Roman hyacinths and lily of the valley were in good demand. It may be said that shipping trade has been better than for years. All retailers are well satisfied with the amount of business done.

LOUISVILLE Business conditions the previous week were pretty well in keeping with the Christmas rush, which was probably the best ever experienced in Louisville. Carnations have had an unusually good demand, with the quality great, and the supply short. Roses have certainly had their share of popularity. The quality and supply with one or two exceptions are satisfactory. Violets, mignonette and lily of the valley move rapidly and are of good quality, but the supply at times is short. The supply of poinsettias is about over.

NEW YORK After the Christmas sweep a considerable drop in values ensued, but not a severe drop, and prices held together fairly well, the anticipation of New Year's being a factor. This latter holiday, although observed by New Yorkers with universal enthusiasm, amounted to but little, however, as a flower-buying occasion. This has been the case for a number of years back, and there was no good reason to expect anything better this year. The retailers took advantage of this assurance to stand out against the hold-over Christmas figures which wholesale dealers tried to maintain on some choice lines, and succeeded in modifying prices somewhat, although there was no very serious smash-up. On Sunday evening most of the large retail establishments closed their doors at six or eight P. M., an unprecedented thing for New Year's Eve. The market at present is quiet, with a downward tendency, and should the weather continue favorable to heavy blooming, a considerable reduction in market values generally may be looked for.

INDIANAPOLIS All the growers and the leading retailers report a record breaking Christmas trade at least 35 per cent. in advance of last year. Prices ruled high in most everything especially Beauties and best grade tea roses of which there was a big shortage owing to dark weather.

Christmas greenery went better than last year. The market was not overstocked so everything was sold at good prices. Brisk sales as usual in flowering plants and made up baskets. Extra trimming of same not in evidence. Nothing in the line of novelties was seen. Business has quieted down considerably since Christmas and prices have got nearer to normal again.

PHILADELPHIA New Year's trade was not as good here as last year. The immense Christmas business done no doubt had something to do with accentuating the reaction. Stocks were plentiful and good and while prices dropped on most items they are still satisfactory. Very little business was done on Sunday, the 31st ult., and had it not been for the out of town orders the wholesale forces might as well have gone to church. The weather has been ideal.

SAN FRANCISCO The 1905th Christmas has come and gone, and with it came to plantsmen and florists the greatest trade in the history of the city. Everything seasonable in the blooming line, and some flowers out of season, were in the flower stores in great abundance, with the solitary exception of American Beauty roses. The growers did their best to be amply supplied with Beauties, but their shipments Christmas morning at advanced prices were far short of the orders florists had in hand. The out-of-season blooms referred to were good supplies of magnificent yellow chrysanthemums and rubrum lilies that had been held back by Batistie Ginochio, the Oceanview grower. These rubrums, in hampers and baskets, brought from \$6 to \$8. The supply of pot plants was beyond other Christmas seasons, and Gloire de Lorraine begonias, primroses, poinsettias, cyclamens, azaleas, berried plants and lily of the valley and other bulbous stock sold well, buyers being more than ever predisposed in favor of potted blooming plants over cut flowers for Christmas gifts. Florists were especially pleased with good supplies of improved Testouts grown by Aebi of Berkeley. In length of stem they rivaled the best Beauty, and sold as fast as they came at remunerative prices. Last week's prediction that normal prices would be maintained proved erroneous; fully 25 per cent. advance was about the way things went.

The bursting of the boiler at the greenhouses of Fred B. Barrington, Gloucester, Mass., caused a miniature flood, but the mildness of the weather prevented any serious damage to the stock of flowers and plants while repairs were going on.

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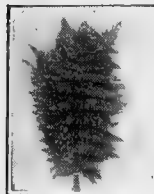
5.00	to	10.00	5.00	to	10.00
2.00	to	4.00	2.00	to	4.00
4.00	to	75.00	42.00	to	75.00
0.00	to	15.00	8.00	to	15.00
2.00	to	4.00	2.00	to	4.00
5.00	to	1.25	.50	to	1.00
2.00	to	3.00	2.00	to	3.00
1.00	to	2.00	1.00	to	2.00
2.00	to	3.00	2.00	to	3.00
2.00	to	8.00	2.00	to	8.00
.75	to	1.25	.75	to	1.25
.....	to	1.50	to	1.50
8.00	to	12.00	8.00	to	12.00
25.00	to	40.00	25.00	to	40.00
15.00	to	25.00	15.00	to	25.00

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	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	Jan. 2		Jan. 1		Jan. 2		Jan. 2	
ROSES								
Am. Beauty and Edgerly, fan and sp	60.00	to 75.00	to 50.00	60.00	to 80.00	65.00	to 75.00
" extra.....	40.00	to 50.00	.....	to	40.00	to 60.00	30.00	to 50.00
" No. 1.....	25.00	to 35.00	.....	to	20.00	to 25.00	12.50	to 15.00
" Lower grades	10.00	to 12.00	.....	to 10.00	15.00	to 20.00	.....	to 5.00
Bride and Maid, fan, and sp.....	8.00	to 10.00	.....	to 10.00	15.00	to 18.00	.....	to 8.00
" extra.....	.....	to 10.00	.....	to	12.00	to 15.00	12.00	to 15.00
" No. 1 and Lower gr.....	.....	to 4.00	.....	to 4.00	8.00	to 10.00	4.00	to 10.00
Liberty, fancy.....	12.00	to 15.00	.....	to 15.00	15.00	to 20.00	10.00	to 25.00
" Ordinary.....	8.00	to 10.00	.....	to 10.00	10.00	to 15.00	.....	to
Richmond, Fancy.....	.....	to .....	.....	to 10.00	.....	to .....	.....	to
" Ordinary.....	.....	to .....	.....	to 5.00	.....	to .....	.....	to
Golden Gate, Fancy.....	10.00	to 12.00	5.00	to 10.00	10.00	to 15.00	.....	to
" Ordinary.....	1.00	to 3.00	.....	to	6.00	to 10.00	.....	to
Chatenay, Fancy.....	.....	to .....	.....	to .....	.....	to .....	.....	to
" Ordinary.....	.....	to .....	.....	to .....	.....	to .....	.....	to
CARNATIONS								
Fancy.....	6.00	to 8.00	3.00	to 5.00	5.00	to 6.00	4.00	to 8.00
Ordinary.....	4.00	to 5.00	.....	to	3.00	to 4.00	1.25	to 3.00
MISCELLANEOUS								
Cattleyas.....	.....	to .....	.....	to 50.00	.....	to .....	.....	to
Cypripediums.....	.....	to .....	.....	to 25.00	.....	to .....	.....	to
Lily of the Valley.....	3.00	to 4.00	3.00	to 5.00	3.00	to 5.00	2.00	to 4.00
Violets.....	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	1.00	to 1.75
Tulips.....	4.00	to 6.00	.....	to .....	.....	to	4.00	to 5.00
Roman Hya.: Paper White Nar.....	3.00	to 4.00	.....	to 3.00	.....	to	2.00	to 4.00
Dafodils; Trumpets.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Mignonette.....	.....	to	2.00	to 4.00	.....	to	2.00	to 4.00
Adiantum Cuneatum.....	1.00	to 1.50	1.00	to 2.00	1.00	to 1.50	.....	to
" Croweanum.....	.....	to .....	.....	to 1.25	.....	to 1.50	1.25	to 2.00
Smilax.....	12.50	to 15.00	.....	to 15.00	15.00	to	12.50	to 15.00
Asparagus Plumosus, strigatus.....	.....	to 50.00	.....	to 10.00	.....	to 50.00	30.00	to 50.00
" " & Sprengerii, bunches.....	25.00	to 35.00	.....	to	25.00	to 60.00	.....	to

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

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Philip F. Kessler, 55 W. 26th St., New
York.

Julius Lang, 53 West 30th St., New York.

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James McManus, 50 W. 30th St., New York.

Chas. Millang, 50 West 29th St., New York.

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York.

John J. Perkins, 115 W. 30th St., New York.

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H. BAYERSDORFER & CO

50-56 North 4th Street

PHILADELPHIA, PA.

FLORISTS' SUPPLIES

BEST LINE IN THE COUNTRY

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.

"Happy New Year!"

WE EXTEND our thanks for the liberal patronage bestowed upon us during the past year and hope to again be favored with your orders for 1906. We want to make the coming year an eventful one in this business. Plans have been perfected and extensive preparations have been made to take care of your orders next year in a manner that will satisfy the most critical and exacting. We solicit your inquiries knowing that we can give you the very best material, workmanship and service that cannot be excelled. All correspondence will receive our very best attention.

John C. Moninger Co.

117 East Blackhawk Street * CHICAGO

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE 131 FIFTH AVE

74 FRANKLIN ST. BOSTON



Standard Flower .. POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money

W. H. ERNEST.

28th and M Streets WASHINGTON, D. C.

Holds Glass
Firmly

See the Point

PEERLESS

Glazing Points are the best.
No rights or lefts. Box of
1,000 points 75 cts. postpaid.

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FULL SIZE
No. 2

PEERLESS REPAIR CLAMP

MADE OF ZINC

REPAIR CRACKED GLASS IMMEDIATELY AND PERMANENTLY
For sale by jobbers. Box of 150 for \$1.00 or address

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32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER
GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

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**SCOLLAY HOT WATER
and STEAM BOILERS**

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73 and 75 Myrtle Avenue

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Greenhouse Material

Ask for our Special Catalogue No. 554 describing
Boiler Tubes, Boilers, Tubes, Lumber and Sup-
plies of every kind from the Fifty Million Dollar St.
Louis World's Fair.

CHICAGO HOUSE WRECKING CO.
35th and Iron Sts. CHICAGO

SEND FOR
NEW GREEN HOUSE CATALOGUE
JUST ISSUED BY
King Construction Co.

North Tonawanda, N. Y. and Toronto, Ont.
In writing advertisers, mention Horticulture

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Founded by Thos W. Weathered in 1857

Designers and Builders of Glass Structures
for Plant, Flower, Vegetable and Fruit Growing

1906 Catalog is Now Ready

We manufacture material for every type of greenhouse - iron frame or wooden construction - absolutely first class material - best workmanship - right prices. Nearly fifty years devoted exclusively to the building, heating and ventilating of greenhouses justifies us in saying that any advice given by us on our specialties should be of value. Our catalog tells all. Send for it at once. Tell us your wants.

We may aid you with our suggestions.

Weathered Company

46 and 48 Marion St.
New York City

General office & works
West Side Ave. Sta. Central R.R.
Jersey City, N. J.

On or before January 1, 1906, if you send this card with the publisher of Horticulture and he will send it.

WEATHERED COMPANY

GREENHOUSES

NEW YORK



Plans The Thing

**"You can build when you want to, but
there is only one time to plan"**

That time is BEFORE you build. The planning of a greenhouse does not simply mean a matter of proportions, a question of measurements, materials. It means an economy of plans—an arrangement that reduces work to a minimum, that permits heating economy.

It means to so plan—that future additions may be run equally economical.

We have made a business of right planning.

.. Catalogue J-G

Burnham-Hitchings-Pierson Co.

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DESIGNERS AND
MANUFACTURERS

1133 Broadway, cor. 26th St., N. Y.

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For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special **"PECKY CYPRESS"** Position to Furnish

Everything in PINE and HEMLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

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FACTORIES ARE AGAIN RUNNING
Best prices for direct shipment and from stock

WRITE US BEFORE PLACING ORDERS

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22d and Union Place, CHICAGO

The Cottage Gardens

Contain the finest assortment of selected specimen Evergreen, Deciduous Trees and Shrubs procurable, and its Landscape Department is at your service in arranging them. Price list ready now.

Has tables of the best herbaceous plants, giving common and botanical names, height, color and season of bloom. Sent free. All inquiries cheerfully answered.

COTTAGE GARDENS CO., QUEENS L. I.

FINE SILVER CUPS and TROPHIES

For Exhibition Awards, Sporting Events, etc.

FINEST ASSORTMENT IN THE COUNTRY
FROM THE BEST MANUFACTURERS AND
AT LOWEST PRICES.

**THORNTON BROS.,
LAWRENCE, MASS.**

HORTICULTURE

Vol. III. JANUARY 13, 1906 No. 2



A SUB-TROPICAL BED, BOTANIC GARDENS, WASHINGTON, D. C.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

The E. G. Hill Co. Richmond, Indiana

HEADQUARTERS FOR CHRYSANTHEMUMS

The three most successful commercial varieties of the year have been:

Mlle. Clementine Tousey, which is an October Chadwick.

Roi d'Italie, magnificent October yellow, round as a ball.

Jeannie Nonin. The most perfect white commercial. The latest fine white.

Orders booked now for 1906 delivery at \$10 per 100

We won First Premiums in all but one entry for collections at the shows at Philadelphia, Chicago, St. Louis, Kansas City and Indianapolis, and these collections were made up very largely of novelties; the big new sorts are an absolute necessity.

CERANIUMS.—We have splendid young plants ready for immediate delivery of Castellane, Trego, Mrs. E. G. Hill, Marvel, Nutt, J. Viaud, Ricard, Tamatave, Charles Harcourt all the best bedders. Also fancy pot varieties, at \$22.50 per 1000.

THE E. G. HILL CO.

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Over one million plants ready from our Famous Strain. None better. \$1.50 per 500, \$2.50 per 1000.

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We are headquarters for **MARGUERITES**. We have 7 varieties and make it our specialty. Stock of 4 varieties is offered for sale and with a guarantee that it is entirely free from leaf miner or other insect pests. Prices on application. Flowers in any quantity October 1st to July 1st.

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Stall 1. Boston Flower Market, Park St.

CYCLAMEN SEEDLINGS

ONCE TRANSPLANTED.

Giant Strain; none better; including Salmonium, New fringed, Roccoco and Papilio in five separate Colors.

\$2.50 per 100, \$22.00 per 1000.

C. WINTERICH, Defiance, Ohio.

ORDER AT ONCE

TUBEROUS
ROOTED

BEGONIAS

Gold Medal Strain

SINGLES—White, Yellow, Scarlet, Orange, Pink, separate colors, \$3.00 per 100; **Mixed Colors**, \$2.75.

DOUBLES—Separate colors, as above, \$4.50 per 100; **Mixed Colors**, \$3.75.

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N. LePAGE, Rep., Mt. Vernon, N. Y.

40,000 Large 4-Year Old Barr's Mammoth Asparagus Roots,

Suitable for forcing or for outdoor planting where it is desirable to cut the first season. Price \$1.25 per 100; \$6.90 per 1,000; or 20,000 for \$100.00.

Order at once; ground must be cleared. Address

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It is never too early nor too late to order the

Scott Fern

Best Commercial Introduction for many years

JOHN SCOTT

Flatbush, Brooklyn, New York.

NEPHROLEPIS BARROWSII, \$25 PER 100

SCOTTII, 2½ in., . . . 5 " "

BOSTONS, 2½ in., . . . 3 " "

HENRY H. BARROWS & SON,
Florists, Whitman, Mass.

S. S. SKIDELSKY

824 No. 24th St.

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Correspondence solicited

GODFREY ASCHMANN

1012 Ontario St., PHILADELPHIA

Importers of Araucaria excelsa, glauca, compacta, and robusta

PALMS and AZALEAS

Write for prices

TABLE FERNS

Strong plants, good varieties.

2¼ inch pots. \$3.00 per 100.

\$25.00 per 1,000. CASH.

J. H. FIESSER,
WEST HOBOKEN, - NEW JERSEY

If you offer the right goods in the right way in these columns, you will not lack for customers.

Palms, Ferns

And Decorative Plants

A Fine Lot of **AZALEAS** in Great Variety

A Large Assortment of Ferns for Jardinieres Also, Araucarias, Rubbers, Pandanus, Aralias, Dracaenas, Aspidistras, Marantas, Crotons etc., etc.

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Growers and Dealers

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Roslindale, Boston, Mass.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

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Largest Importers, Exporters, Growers
and Hybridists in the World

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Agent, A. DIMMOCK, 31 Barclay St., NEW YORK CITY

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Lager & Hurrell, Growers and Importers, Summit, N. J.

ORCHIDS, PALMS

FOLIAGE PLANTS

Bay and Box Trees

JULIUS ROEHRS CO.

EXOTIC NURSERIES RUTHERFORD, N. J.

Nephrolepis Piersoni Elegantissima

See our advertisement in issue of Dec. 9—Page 623.

MY MARYLAND

ANNOUNCEMENT TO THE TRADE:

We, The H. Weber & Sons Co. of Oakland, Md., respectfully announce that The E. G. Hill Co. of Richmond, Ind., have withdrawn from the contract made with us last Spring whereby they would have jointly with us, disseminated our new white carnation, My Maryland.

The variety has been on trial at Richmond, (3,000 plants), Brooklyn, (300 plants) Philadelphia, (1000 plants) and Toronto, (1000 plants).

Reports from the first two named places characterize the variety as being practically worthless, while from Toronto and Philadelphia favorable reports indicate that the variety is bearing out our claims for it.

Our own stock at Oakland is in elegant shape. An extremely wet Summer necessitated the holding of stock in a semi-dormant condition after being housed Aug. 15th to Sept. 1st, thus making stock too late for the Fall shows. Since Dec. 1st we have been cutting grand blooms, and to prove our claims for the variety we invite all interested to come to Oakland and look it over. While it is a source of regret to us that the variety has not proven satisfactory in all places tried, we are satisfied that it will prove our claims for it in at least some places besides our own.

We therefore announce that we will disseminate My Maryland as per our advertisements, but before shipping any stock we give to each and every one the right to cancel all or any portion of their orders.

JESSICA, we believe will succeed everywhere. It is even better than last year. As a red and white it has no competitor. Stock ready now. Price for both varieties, \$2.50 per doz., \$12.00 per 100, \$100.00 per 1000.

The H. Weber & Sons Co., Oakland, Md.

Pink Patten

Brighter than Lawson

First Class Certificate at Boston and Tarrytown

Mikado

Strictly Fancy

First Class Certificate American Carnation Society at Chicago

PRICES

Per 100, \$10.00; per 1000, \$80.00; 250 at 1000 rate.

Send for Descriptive Circular

Patten & Co., Tewksbury, Mass.

A CARNATION

which has no rival

White Lawson

Rooted Cuttings Now Ready. \$4.50 per 100; \$40.00 per 1000. From the stock which won the Music Hall Market Prize at Boston last spring.

T. F. MATTHEWS,

Ashland St., Cor. Mill, Dorchester, Mass.

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1,000
Fiancee.....	\$6 00	\$50 00
Cardinal	6 00	50 00
Patten	3 00	25 00
Enchantress....	2 50	25 00
Queen	2 00	15 00
Maceo.....	2 00	15 00
Lawson	2 00	15 00
Fair Maids.....	2 00	15 00
Challenger	2 00	15 00
Prosperity.....	2 00	15 00

G. WARBURTON, Fall River, Mass.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

CARNATIONS

All the Best Varieties

J. D. THOMPSON CARNATION CO.
Joliet, Ill.

If you offer the right goods in the right way in these columns, you will not lack for customers.

RED LAWSON The only red Carnation you want. R. C., \$4.00 per 100; unrooted, \$2.00 per 100.

MRS. W. T. OMWAKE. Sport of Enchantress, improved Enchantress, 3 to 4 shades deeper. R. C., \$10.00 per 100; unrooted, \$5.00 per 100. CASH, PLEASE.

HENRY EICHHOLZ, Waynesboro, Pa.

WALSH'S

"LADY GAY"

The sensational rose at the Temple and Regents Park Shows, London, England, May 25 and June 1, 1905. Awarded Gold Medals.

Plants for forcing in pots. Prices on application, order now.

"WEDDING BELLS" in pots, strong plants from open ground, extra fine, suitable for Easter sales. **"FRAU KARL DRUSCHKI,"** the new white rose, and **"KILLARNEY,"** My stock of these is large and of best quality. Excellent **"ULRICH BRUNNER,"** for forcing.

All the leading Hybrid Perpetuals and Hybrid Teas. The new "Soleil d'Or," a grand forcing rose. Try it. Also Paeonies and Phlox.

M. H. WALSH

ROSE SPECIALIST

WOODS HOLE, MASS.

If you offer the right goods in the right way in these columns, you will not lack for customers.

HANNAH HOBART

The Pride of California. The Grandest of Pink Carnations

A shade deeper than Lawson, blooms four to four and one half inches across, full and regular. Stems long and strong. Does not burst the calyx. Growth free and easy. A prolific bloomer. Its flowers wholesale for a higher price than any other carnation in the San Francisco market. (See illustration and full description in Horticulture of July 1, 1905.) Orders for rooted cuttings booked now and filled in rotation beginning January 1, 1906, at

\$3.00 per 12; \$15.00 per 100; \$120.00 per 1000

JOHN H. SIEVERS & CO.

1251 Chestnut Street SAN FRANCISCO, CAL.

In writing advertisers, mention Horticulture

The Cottage Gardens

Contain the finest assortment of selected specimen Evergreen, Deciduous Trees and Shrubs procurable, and its Landscape Department is at your service in arranging them. Price list ready now. Has tables of the best herbaceous plants, giving common and botanical names, height, color and season of bloom. Sent free. All inquiries cheerfully answered.

COTTAGE GARDENS CO., QUEENS L. I.

R. & J. FARQUHAR & CO.

6 and 7 South Market Street
Boston, Mass.

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SPECIAL SURPLUS OFFER

KENTIA BELMOREANA

	Doz.	100
3 1/2 inch Pots 4-5 leaves	\$2.00	\$15.00
4 " " 5-6 "	4.50	35.00
5 " " 6-7 " at 1.00 each		

F.O. B. Boston, no charge for packing

Cash with order or satisfactory references



NIKOTEEN APHIS PUNK
THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
WIDELY IMITATED BUT NEVER EQUALED
UNIFORM AND ALWAYS EFFECTIVE
DON'T ACCEPT INFERIOR IMITATIONS
PRICE 60¢ PER BOX OF 12 SHEETS
\$6.50 PER CASE OF TWELVE BOXES.
NICOTINE MFG. CO. ST. LOUIS, MO.



Rawson's Flower Market Stocks

Our own strain grown especially for us; 85 to 90% double flowers:
Pure White 1 doz. .75¢ 1 doz. \$5.00
Other colors " .60 " 4.00

W. W. RAWSON & CO., Seedsmen
12 & 13 Faneuil Hall Sq., Boston, Mass.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

**HELLER'S
MICE
PROOF
SEED
CASES.**

SEND FOR
CIRCULARS
Heller & Co.
MONTCLAIR, N. J.

QUALITY SEED BULBS
SEND FOR CATALOGUE
ARTHUR T. BODDINGTON
342 West 14th St., New York

MAKERS OF PURE CULTURE TISSUE
COLUMBIA, ALASKA, BOHEMIA
MUSHROOM SPAWN
Fresh Spawn Always on hand.
WRITE FOR PRICES.
COCHRAN MUSHROOM & SPAWN CO.
911 CHEMICAL BLDG. ST. LOUIS, MO.

Thorburn's Bulbs

LILY OF THE VALLEY PIPS

on hand, of extra fine quality, BERLIN or HAMBURG. Send for prices.

Our **WHOLESALE PRICE-LIST** for FLORISTS and MARKET-GARDENERS will be ready for mailing **JANUARY 1ST** SENT FREE ON APPLICATION.

CYCAS REVOLUTA STEMS**J. M. Thorburn & Co.**

36 Cortlandt St., New York
In writing advertisers, mention Horticulture

Vegetable and Flower SEEDS
Reliable and Tested. Catalogue Mailed Free
WEBER & DON
Seed Merchants 114 CHAMBERS STREET NEW YORK

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

GLADIOLI Forcing Varieties

FOR PROMPT SHIPMENT
JAPAN LILIES SEEDS FOR FLORISTS
Joseph Breck & Sons Corp.
Seeds and Agricultural Hardware
47-54 NO. MARKET ST., BOSTON, MASS.

THOS. J. GREY & CO.

HIGH GRADE FORCING BULBS

Agricultural Implements SEEDS

32 SO. MARKET ST., BOSTON

Seeds, Bulbs and Fertilizers

BURNETT BROS.

101 West Street
Opposite Central R. Rd. Ferry, Liberty and West Streets
NEW YORK

Lilies, Japanese Plants**BAMBOO STAKES****SUZUKI & IIDA**

31 Barclay Street, New York

HORICUM

KILLS SAN JOSE SCALE
Made by **HAMMOND'S SLUG SHOT WORKS,** Fishkill-on-Hudson, N. Y.
SOLD BY SEED DEALERS OF AMERICA

MICHELL'S

New Crop Flower Seeds

NOW READY FOR DELIVERY

Asparagus, Plumosus Nanns, green house grown seed, strictly fresh, per 100 seeds, 60c. per 1000 seeds, \$3.00
Asparagus, Sprengeri, per 100 seeds, 1.50 per 1000 seeds, 75c

Tr. Pkt. Oz.
Alyssum, Little Gem..... \$0.10 \$0.35
Aster, Queen of Market, dark blue, light blue, pink, scarlet, white and mixed, each..... .20 .60
Calendula, Grand flora..... .10 .15
Candytuft, Empress..... .10 .25
Impatiens, Sultan..... .30
Lobelia, Crystal Palace Compacta..... .30 1 50
Lobelia, Crystal Palace Speciosa..... .20 60
Maurandia, Barclayana..... .20 1.25
Maurandia, Mixed..... .20 1.25
Moon Flower..... .15 .50
Petunia, Grandiflora Fringed, Dwarf Inimitable..... .50
Phlox Drummondii, Dwarf Mixed..... .40 1 75
Salvia, Bonfire (Clara Bedman)..... .40 2 50
Salvia, Splendens..... .25 1.25
Smilax..... (per 1 lb., root) .10 .25
Thunbergia, Mixed..... .15 .50
Verbena, Mammoth Fancy Strain, blue pink, scarlet, striped, white and mixed, ea. .30 1 50
Send for Wholesale Catalogue, and "Handy Order Sheet" now ready

HENRY F. MICHELL CO.

Flower Seed Specialists

1018 Market St., Philadelphia, Pa.

Sweet Pea Christmas

The new strain has proved to be very superior for florists' use. In habit it is similar to Blanche Ferry, the pink showing up brighter than in that old favorite. It is an early and continuous bloomer, coming into bloom in about ten weeks. When the bottom branches commence to flower, stems about fourteen inches long with four flowers on a spray are the rule. It is a dwarf grower, rarely reaching over five feet. Many of my customers have spoken highly of this strain, and I have pleasure in recommending it to all who grow sweet peas for the market.

	OZ.	LB.
Pink and White	\$.25	\$2.00
Pure White	.25	2.00

George C. Watson

—SEEDSMAN—

1614 Ludlow Street, Philadelphia

Other varieties of Sweet Peas at usual market prices.

**BULBS**

HORSESHOE BRAND and **PLANTS**
Ralph M. Ward & Co.
2 West Broadway, New York.

HORTICULTURE

VOL III

JANUARY 13, 1906

NO. 2

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

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INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.
LOUISVILLE, KY.—F. L. Schulz, Jr., 1325 Cherokee Rd.
MONTREAL—William Cooper, 568 St. Paul St.

NEWPORT, R. I.—David McIntosh, Ledge Road.
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CANNAS A Quarter of a Million Strong Dormant Roots

Alsace, white.
Austria, yellow.
Fair Persian, white, red spots.
Peach Blow, delicate pink.
Virginia, rose pink.
Grand Rouge, dark foliage.
Paul Marquant, salmon.
Italia, red, gold edge.
Morning Star, crimson, yellow throat.

The above per 100, \$2.00; per 1,000, \$15.00

TWO, THREE AND MORE EYES.

A. Bouvier, crimson, tall.
Chas. Henderson, scarlet.
Flamingo, crimson.
Florence Vaughan, yellow.
Shenandoah, salmon, dark foliage.
Robusta, dark foliage, tall.
The above per 100, \$2.25; per 1,000, \$17.50
J. D. Eisele, scarlet.
Cinnabar, red, gold edge.
Beaute Poitevine, red, gold eye.
The above per 100, \$2.50; per 1,000, \$20.00

Mme. Crozy, crimson, gold edge.
Pierson's Premier, scarlet, very dwarf.
Queen Charlotte, crimson, gold edge.
The above per 100, \$3.00; per 1,000, \$25.00
Egandale, dark foliage.
Souv de A. Crozy.
The above per 100, \$3.50; per 1,000, \$30.00
Black Beauty.
The above per 100, \$7.00; per 1,000, \$60.00

CALADIUM ESCULENTUM

(Elephant's Ear)

	per 100	per 1,000
6 to 8 in. circumference	\$2.00	\$15.00
8 to 10 " "	3.50	30.00
10 to 12 " "	5.50	50.00
12 in. and up " "	10.00	

TUBEROSES EXCELSIOR PEARL

	per 100	per 1,000
Bulbs, 4 to 6 in. circumference	\$1.00	\$7.50

TUBEROUS ROOTED BEGONIAS

Large Bulbs, 1 1/4 in. diam. and up.
Single separate colors or mixed, per doz. 35c.; per 100, \$2.25; per 1,000, \$20.00.
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GLOXINIAS

Bulbs, 1 1/4 in. diam. and up.
Named, per doz., 75c.; per 100, \$5.00; per 1,000, \$40.00.
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Florists' Catalogue of Seeds, etc., Free for the Asking.

ARTHUR T. BODDINGTON, 342 West 14th St., New York

Peremptory Sale of New and Choice Dahlia Roots

The cream of the stock of the Atco Dahlia Farms embracing most of the newer and more refined forms such as Kriemhilde, etc.

The 26 best varieties for cut flower purposes.

AT ASPARAGUS PLUMOSUS NANUS SEED, true stock, greenhouse grown, ready for delivery now. \$4.50 per 1,000, \$40.00 per 10,000.

Send for descriptive price list.

SAMUEL S. PENNOCK

The Wholesale Florist of **PHILADELPHIA**
1612-1618 Ludlow Street

ROOTED CUTTINGS Get the Best

	Per 100	Per 1000
White Lawson.....	\$3.00	\$27.50
White Perfection, new	12.00	100.00
Enchantress.....	3.00	25.00
Fair Maid.....	2.00	15.00
Lawson.....	2.00	15.00
Haines' New Red...	12.00	100.00
Cardinal, best scarlet of all.....	6.00	50.00

	Per 100	Per 1000
Harlowarden, best crimson.....	2.00	15.00
Crusader, fine commercial red....	2.00	15.00
Mrs. M. A. Patten, striped.....	2.50	20.00
Glendale, new improved variegated..	12.00	100.00

Quality guaranteed. Send for prices on large lots; also complete list of Carnations, Pinks and Roses

CHICAGO CARNATION CO.

JOLIET, ILL.

CARNATIONS
H. A. Stevens Co. variety
Variegated Lawson Rooted Cuttings
now ready. Also Mrs. M. A. Patten, Pink Patten, Enchantress, Harry Penn, Fair Maid, Boston Market, Lady Bountiful, T. W. Lawson. Send for prices.
HENRY A. STEVENS CO.
East Street, Dedham, Mass.

	100	1000
RICHMOND ROSE 2 1/4 in.	\$15.00	\$120.00
KAISERIN " "	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
ENCHANTRESS	3.00	25.00
QUEEN and LAWSON	2.50	20.00

E. H. PYE, FLORIST
UPPER NYACK, N. Y.

NEW CARNATIONS
ROBT. CRAIG, VICTORY
JESSICA

Immediate delivery.

Price \$12.00 per 100
\$100.00 per 1000

CHRYSANTHEMUM NOVELTIES

All the best of the year. If you have not received my list send for it.

CHARLES H. TOTTY
Madison, N. J.

Ferns for Everyday Use



NEPHROLEPIS PECTINATA

NEPHROLEPIS DUFFII

NEPHROLEPIS CORDIFOLIA

Nephrolepis is a small genus among ferns, nearly related to *Aspidium* in botanical classification. The fruit dots are kidney-shaped and in one row on each side of the midrib near the edge and have more or less apparent little protuberances on the upper part of the leaflets, sometimes with little white chalky dots. The fronds of all the species are simply pinnate, long, sometimes very long in proportion to the breadth.

On account of the Boston fern, *Nephrolepis exaltata*, and its beautiful new forms, the *nephrolepis* is among the most grown and the most useful because of their decorative qualities, their easy growing and their quick reproduction through their numerous wiry creeping runners. It is an almost indestructible fern, for when all the fronds dry off from neglect, soon a new crop will grow, with little care. Although they are so much used for dwelling decoration, nevertheless it is in the conservatory where they show for the best, when they can creep over rocks and walls and develop their numerous beautiful drooping fronds.

It would be useless to repeat what has often been told about *Nephrolepis exaltata* and its forms, their culture and propagation, in the horticultural press. The other species need no other testimonial. But there are a few species less known and so seldom seen as to deserve to be noticed. *Nephrolepis acuta* is found in the same country as *exaltata*, all over the tropical world. They both are found in Florida. *Acuta* looks much like Boston fern, is of more erect habit, the fronds arching and not drooping and of heavier texture.

Nephrolepis cordifolia or *tuberosa* from West Indies and Central America is found also in Japan and New Zealand. It is a nice erect, compact-growing species with narrow arching fronds, the leaflets of a dark green color, set near together. In addition to the buds which grow along the runners there are some tubers which can be used for propagating. There are other species which grow tubers but they are deciduous, drop their fronds in winter, and have to be kept dormant during that time but not dried out. These tubers are of a woody nature, and would grow no more if not kept moist. *Nephrolepis pluma* from Madagascar and *Nephrolepis undulata* from West Africa are some of them; the first has long narrow pendulous fronds, the other short erect ones. Both are of soft texture and have the leaflets dentated.

Nephrolepis davallioides from East Indies is a big-growing species, has the fronds long and larger than in other species and of heavy texture. Its form, furcans, is forked at the ends of the leaflets and plumosa

is of smaller size, three and four times forked at the ends.

Nephrolepis Duffii from the South Sea Islands is one of the most interesting of the genus, relatively dwarf and erect in habit, compact growing. The fronds are very narrow, crowded with little gnarly, round leaflets, the top is arching and sometimes forked. It makes a nice pot plant.

Nephrolepis rufescens is the type of the better-known *Nephrolepis rufescens tripinnatifida*. Both are from the South Sea Islands. Both are of the most striking in the *nephrolepis* group because of their feathery appearance. The fronds are long, erect and long-stalked; the leaflets, overlapping each other, are two or three times divided, of a light green color, with brown hairy stems. Like *Duffii* and *davallioides* they require stove houses. *Nephrolepis pectinata* from Central America is the best to grow in little pots. They are furnished with narrow one-foot-long graceful pendulous fronds, fine for table decoration. In the conservatory they grow well on walls. They can be used planted in wire netting filled with soil and moss and built up in the form of pillars, etc. They make also beautiful hanging baskets.

Nephrolepis Phillipinense is a dwarf growing species too, of erect habit, the leaflets crowded and dentated, of a dark green color and leathery texture.

Taking into consideration the popularity, beauty and usefulness of *Nephrolepis exaltata* and its newer forms. I think these few species above enumerated ought to be given more attention.

Am. Duffii

Our Frontispiece

The handsome illustration on the cover page of this issue shows one of the striking sub-tropical beds at the Botanic Gardens, Washington, D. C., as planted last year. Arundos, eulalias, cyperus and other grasses lighten up the massive effect of the musas, cannas, and other large foliaged plants. The bed contained, beside four varieties of large-leaved cannas and fourteen varieties of flowering cannas, the following bananas: *Musa sapientum*, *rosacea*, *Cavendishii*, *coccinea*, *superba*, *paradisiaca*, *velutina*, *zebrina*, *Martini*, *Dacca*, *religiosa* and *purpurea*. This bed lasted in good condition until November 3.

British Horticulture

SEEDSMEN'S CENTENARY

This year the firm of Messrs. Sutton and Sons, seedsmen, of Reading, will celebrate their centenary. The business was founded in 1806 by the late Mr. John Sutton, the grandfather and great-grandfather of the present proprietors, and it has gradually extended until it has reached a leading position in the country. When asked some time ago as to the chief causes of the success achieved a representative of the firm replied: "One is that the whole of the work at home and the growing of crops for seed is under the personal supervision of the partners of the firm. Another is the cleaning of the seeds, and a third the testing." From September to March a large staff of women is employed in cleaning seeds. The workers are not paid according to the quantity of seed they pick over, but for the quantity of bad and soiled seed discovered, thus encouraging the greatest vigilance. The seeds are tested for germination in the house, and for character afterwards in the open. In every case they are counted; an entry is made of the date of sowing and as the germs appear the number is recorded. To prevent the possibility of an error the trials are duplicated, and, in the event of conflicting results, entirely repeated. A remarkable feature of the business is that no agents or travelers are employed. The founder of the firm originated the plan of selling to the customers direct, and this system has been continued to the present day.

MR. M. J. SUTTON'S ACHIEVEMENTS

Mr. Martin J. Sutton, the head of the firm, is one of the busiest men in the country. In addition to taking an active part in the business, he finds an outlet for his energies in divers directions. He has made a special study of pastures and the cultivation of grass-lands. His well-known book is recognized as the standard work on this subject. For a quarter of a century Mr. Sutton has been prominently associated with the leading agricultural societies. At the French Exhibition in 1878 he was personally decorated by the President of the French Republic with the Cross of the Legion of Honor in consideration of the distinguished services he had rendered to agriculture, whilst in 1901 the French Government bestowed upon him the Order du Merite Agricole. Mr. Sutton was the first to introduce the Irish breeds of Dexter and Kerry cattle into this country, and obtain recognition of their merits by the offering of prizes for them at the chief agricultural shows. In the departments of religious and philanthropic work Mr. Sutton has helped lavishly by his purse and by his effective public service. Last year he was elected Mayor of Reading, his term of office being distinguished by a large amount of useful work on behalf of the district. About three years ago he received the freedom of the borough, in recognition of his public services, and on that occasion Prince Christian unveiled a handsome statue of King

Edward VII. erected by the munificence of Mr. Sutton, near Reading railway station.

DINNER TABLE DECORATIONS

This is the season when special attention is given to the floral adornment of dinner tables, and a few details as to some designs noticed this Christmas on this side may be of interest to American florists. A pleasing effect is produced with an arrangement of *Cedrus deodora*, variegated *Euonymus radicans*, with blooms of Christmas rose and sprays of jasmine in the large trumpet vase in the centre. A wreath of moss surrounds the base upon which is arranged *Physalis franchetti*, relieved by sprigs of "Honesty" (*Lunaria*). Four smaller vases are arranged opposite the sides of the table and four as an outer set opposite the corners. The inner set are dressed with light sprays of mistletoe and jasmine, and the outer with Christmas roses and holly. The four inner vases are linked with green ribbon, and the outer with scarlet ribbon. The base of the smaller roses is surrounded with a small wreath of moss upon which a star is formed in the case of the outer ones of *Physalis*, and the inner of "Honesty." A good use is made of begonia *Gloire de Lorraine* for decoration. Three plants in 5-inch pots are placed down the centre of the table, and smaller plants in 3-inch pots down each side. These are sometimes placed in china bowls. The pots are connected by long sprays of *Asparagus Sprengeri*, and the arrangement looks well either by daylight or artificial light.

A SHOW OF WINTER FLOWERING CARNATIONS

Since my last note on this subject further progress has been made towards arranging a show of winter flowering carnations. Mr. Hayward Mathias, of Thames Ditton, a leading expert, has taken up the matter, with the co-operation of several noted specialists, and it has been decided to invite the growers to make a special display at one of the Royal Horticultural Society's meetings late in February or early in March. The Society is to be asked to grant medals and certificates to the exhibits. It has also been decided to convene a meeting at the show with a view to the formation of a Winter Flowering Carnation Society. From the excellent displays of carnations which have lately been made at the shows of the Royal Horticultural Society, particularly on December 19th, there can be no doubt that a very attractive exhibition will be arranged. The only point arising is, seeing that there is already a National Carnation Society in existence, holding a July show, whether it is advisable to have a separate organization for a winter display. Carnation culture is now a very important line with trade growers, immense quantities being marketed during the season. Unfortunately this particular branch, like several others, has been overdone. Some of the pioneers made money in the early stages, but the large increase in competition has brought down the prices. Competition has full play at Covent Garden, for there is no organization amongst the florists to regulate supplies.

W. H. Adsett.

London, Jan. 1, '06.

OBITUARY.

Samuel B. Parsons

Samuel B. Parsons, nurseryman, founder of the Parsons' Sons' Company, died at his home in Flushing, N. Y., on Jan. 4, aged 87 years. He started the nursery business in 1839. Six years later he visited Europe to study horticultural conditions there, and in 1859



went again on a similar mission for the United States Government. He was active in literary work, one of his best known productions being a volume on the Rose, published in 1847.

Joseph Kift, Sr.

This veteran florist passed away January 4th at his home in West Chester, Pa., aged 78. Mr. Kift had the distinction of being the oldest florist in Chester County, having conducted



his establishment on High street, West Chester, continuously for 54 years. His native place was Borough Bridge, Somersetshire, England. When 14 years old, he went to Edinburgh, Scotland, and received there a seven years' training in the horticultural trade, after which he came to America. For two or three years he remained in

New York and Philadelphia, after which (in 1851) he settled in West Chester. Mrs. Kift and four children survive. Robert, the eldest, conducts an extensive retail establishment in Philadelphia, and is well known to the trade all over the country. Another son, Joseph, Jr., does an important landscape and growing business at West Chester. The latter has the distinction of being the first to bring the Bermuda Easter lily to this country, being sent there for it by his father, who grew it extensively, and sent it out a year ahead of Mr. William K. Harris, whose name it bears. Joseph Kift was one of the kindest and most companionable of men and led an exemplary life in all its relations. He will be greatly missed by all who knew him, and their name is legion on both sides of the Atlantic.

AMERICAN INSTITUTE OF NEW YORK.

A series of popular lectures will be given free on "Agriculture and Horticulture," comprising the growing of fruits, flowers and vegetables indoors and outdoors, ornamental gardening, rural art, country life, living from the land, insect life, building of country houses, sanitation in country homes, etc., etc., which will be of particular interest and value. Several prominent experts and eminent speakers will take part in these discussions.

This course of lectures opened January 10th, 1906, at 3.30 P. M., in the lecture-room of the American Institute, Berkeley Lyceum, between Fifth and Sixth avenues, New York city, and is to be continued on the 2d and 4th Wednesdays of each month during the winter.

The first lecture, entitled "The Soil," will be given by George T. Powell, president of the Agricultural Experts Association.

All persons interested in the cultivation of land, nature study, natural sciences, country life and work, or any related subjects are cordially invited to attend.

NEW BEDFORD HORTICULTURAL SOCIETY.

At the annual meeting of this society held on Monday evening January 8, it was voted to hold the annual dahlia show on September 13, 14 and 15th, provided the city hall can be secured for those dates. Four new members were admitted, making a total of 33 new members during the past year.

The meeting by unanimous vote, resolved to indorse, and to respectfully request of the Mayor the appointment of Wm. Keith, gardener for Thomas M. Stetson, and president of the Horticultural Society, to the position of park commissioner which becomes vacant next April. As Mr. Keith has had many years experience in the treatment of shrubberies and extensive grounds it is considered that his appointment to a place upon the board of park commissioners would be a decided acquisition.

THOMAS WHITE.

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting was held at the rooms of the society on January 5th. There was the usual interesting installation of officers with Joseph A. Manda as master of ceremonies. It was decided to continue the monthly competitive flower displays and a desire was expressed by the younger members to be given a chance in them.

Through the munificence of Messrs. John Crosby Brown, William Barr, William Runkle and Sydney and Austen Colgate, six silver cups were presented to the winners of last year's efforts, Peter Duff and William Read for the highest number of points for flowers, Arthur W. Bodwell for first and Edward Thomas for second in the special orchid prize, John Garvin for vegetables and D. Kindsgrab for plants. A loving cup was presented to the retiring secretary, William J. Bennett, by his friends in the society, as a mark of their esteem and also to mark the event of the first marriage of an officer in the society during his term of office.

February second was set for the installation feast. Three new members were elected—John R. LeCount, Henry Meyerholtz, and Herbert T. Williams of Maplewood. Graefe's patent pivoted and adjustable flower stand exhibited by Joseph A. Manda was awarded a certificate. The floral exhibition consisted of a vase of a new seedling carnation by Geo. von Qualen; sweet peas and violets by Max Schneider; Cypripediums Gratrixianum Prinetti and a hybrid Laelia tenebrosa x flava, a most striking flower of lemon yellow with crimson pencilings. The reports of secretary and treasurer showed the prosperous condition of the society.

JOS. B. DAVIS.

NORTH SHORE HORTICULTURAL SOCIETY.

The election of officers on Jan. 5 resulted in the following: President, James McGregor; vice-president, W. B. Jackson; secretary, James Salter; financial secretary, Herbert Shaw; treasurer, John Baker; librarian, Herbert W. Clark; executive committee, F. B. Rust, Thomas Jack, Robert Mitchell, John Desmond and Joseph Clark.

A committee was appointed to arrange for the annual banquet to be held at an early date in the Town hall, with W. B. Jackson as chairman. The reports of the various officers showed the society to be in a healthy condition.

ELBERON HORTICULTURAL SOCIETY.

A meeting of this society was held on Jan. 8. Five new members were admitted. It was decided to hold the Flower Show early in July, and a preliminary schedule was drawn up and approved. Mr. W. Ross, representing F. R. Pierson Co., was a visitor, and in a few well-chosen remarks intimated that F. R. Pierson would donate a special premium for the show and would also make an exhibit. The topic of the evening, "Is it Advisable to Apply Manure to Lawns in the Fall?" took the form of a debate, the negative winning by a majority of one.

W. H. WAITE, Secy.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Look out for fires

This is the time of the year when the volume of greenhouse news from all sections is punctuated with notes of fires and consequent loss. Defective or over-taxed heating apparatus is the usual cause given and the loss, almost invariably without insurance, often means practical ruin for the owner. To say that the majority of these occurrences are easily avoidable is to state what all know to be a fact. It is hard to understand how those who have so much at stake can be so careless.

Ladies' night

Ladies' night, so called, at the Florists' Club, is no less a gentlemen's night, as experience has proven. The latter are by no means unresponsive to the allurements of ice cream and cake, not to mention the magnetic influences of the ladies themselves, to which no proper man is impervious. Late home-coming is inseparable from attendance on club meetings by the grower whose home and business are, of necessity, remote from the centre of activity, and it is only fair that the wives, sisters, and daughters thus often deprived of the company and protection of "our gude man" should receive compensating consideration in an occasional ladies' night or outing where they may come in contact with those whose life work lies in the same lines as their own. No club is doing its full duty nor can be said to be permanently prosperous which neglects these gentle courtesies.

Mutual obligations of wholesaler and retailer

The selling of flowers to retail customers by wholesale dealers has, from the beginning, been a fruitful cause of trouble and complaint. From what we have seen and known we believe the matter is unduly magnified by the retail dealers. There are isolated cases where open competition is carried on by so-called wholesale concerns but, as a rule, the wholesale dealer looks upon these calls by personal friends and others for broken lots of flowers as a nuisance from which he

would be glad to escape, for his own comfort. So long, however, as the retail dealer persists in his inclination to ignore the wholesaler and deal direct with the latter's sources of supply, he forfeits whatever claims of moral obligation or ethics he might otherwise justly make. The wholesale business is now well-organized in many of the large business centres, it is carried on according to established principles by responsible firms, and there is no good reason why, as in other sound and well-ordered commercial industries, the wholesale house should not have the constant and cordial support of the retail distributor so long as he is in a position to respond to the demand and supply the goods. Let it be understood that this is to be the policy, and we shall quickly see the end of retailing by wholesale houses.

Good wishes for the carnation men

The concentrated ardor so well demonstrated in the annual pilgrimages of the carnation enthusiasts at this season of the year, when traveling is a positive discomfort, commands admiration. This element of fidelity and zeal has been a prominent characteristic of the American Carnation Society from the start and its unflinching devotion to the objects for which it was organized is unsurpassed in the history of our horticultural bodies. The lesson of its successful career and the reasons therefor should not be lost on our clubs and societies everywhere. It is our hearty hope that the blizzard weather which has beset the carnation men at their every convention for a number of years may be graciously side-tracked on the occasion now so close at hand and that the adherents of the divine flower, together with their prized products may, for once, all arrive at their destination in prompt time and faultless condition. Their perseverance certainly entitles them to this good fortune.

The death of Samuel B. Parsons

The horticultural world will learn with a feeling of sadness of the death of that eminent and lovable horticulturist, Samuel B. Parsons. Half a century ago he stood in the van-guard of the men who, actuated primarily by their love for nature and the products of the garden, laid the substantial foundations of American horticulture as we know it today. That the good which men do lives after them was never better demonstrated than in the beautiful town of Flushing, Long Island, where on every side one sees ornamental trees of rare perfection all bearing silent testimony to the benign home influence of the Parsons' nursery. The fascinating book on the rose, its history, poetry, culture, and classification, published by Mr. Parsons in 1847 is still well worthy of a place on the bookshelf of every rose lover. It is not only a work of high literary merit but overflows with the earnest, inspiring sentiment of an author full of affection for his subject. The passing away of such a man, even after advancing years have forced him from the sphere of activity, makes the world poorer.

AFTER ADJOURNMENT.

We deprecate the use of a good magazine for wrapping paper and entertain a feeling of pity for the man who makes such a disposition of the permanently useful reading which HORTICULTURE provides. Yet it seems that even this humiliation does not always impair its usefulness, as witness the party who received a shipment of plants, and being attracted by an advertisement on the sheets of HORTICULTURE used as wrappings, at once forwarded a substantial order to the advertiser and telling of the circumstance as above related!

"Many a shaft at random sent
Finds mark the archer little meant."

It is our humble opinion that the esteemed correspondent of the Florists' Review is misinformed when he states in issue of January 4, that "less than 2000 flowers were staged when the A. C. S. last met in Boston." It is our recollection that there were more than 2000 flowers in the class for "vases of 100 each," alone. It was a superb exhibition of the development of the carnation up to date, and the entire proceedings from first to last were enthusiastic and inspiring. It is true that most of the varieties then exploited have gone into oblivion, as have also a majority of the varieties brought forward for five or six years thereafter. The introduction of Prosperity and Lawson blood has revolutionized the carnation industry.

NEWPORT PERSONALS.

Among the visitors to Newport recently were John Beaton, representing R. & J. Farquhar & Co., John Morrison, of Weeber & Son, W. N. Campbell, J. C. Vaughan, William Marshall and Thomas Grey, of Boston.

Plans are being prepared for alterations and improvements on the estate of Gordon King, Esq., which include the planting of extensive shrubberies.

After a fair trial, James McLeish has come to the conclusion that Gros Coleman grapes do not pay, and intends to discard the vines entirely. This condition is in part at least owing to the cheap foreign product (mostly Belgian) pouring into the New York market and selling as low as 25 cents per pound. That is reason enough surely for throwing the vines out.

AN INCREASE IN BUSINESS.

The King Construction Co., of Toronto, Ont., and North Tonawanda, N. Y., in order to meet the increasing demand for their greenhouse structures and equipment, have considerably enlarged their buildings and plant at North Tonawanda. This increase will enable them to at least double their present output in the United States for 1906.

In Canada also their growing business has demanded better accommodations. To meet this want the firm has purchased recently a down-town site opposite the G. T. R. new freight sheds. Possession is to be given about January 11. As soon as additions can be made to the Canadian works the offices of the company will be centered on this property. A special feature of interest to the florists will be a showroom in which samples of greenhouse structures and accessories will be displayed.

SEED TRADE.

The crop of Victoria aster seed in Europe is very short.

Chas. P. Braslan and Russell L. Woldenberg are visiting New York.

Who is the fortunate man to get the government seed order under date of January 6?

California seed growers are refusing onion seed contracts for 1906, claiming that onion bulbs are in very short supply.

A word to the mail order houses issuing catalogues. Hold firm for high prices on Globe onions. All stock will be needed before April 1, 1906.

J. J. H. Gregory & Son, of Marblehead, Mass., have just celebrated their fiftieth anniversary as successful seed growers. In these years they have built up an extensive business and won a reputation for reliability that is unquestioned.

Some California visitors seeking recreation and health: J. E. Northrop, of Northrop, King & Co., with family, at Hollywood; F. T. Emerson at San Diego; Trimble McCullough, of J. Chas. McCullough at Los Angeles.

AMERICAN SEED TRADE ASSOCIATION.

The executive committee of the American Seed Trade Association met at Dooner's Hotel, Phila., and decided that because of the few members who would be able to go to California that trip had better be postponed and the invitation to meet at Toledo accepted. The routine business was the arrangement of program. The following members were in attendance: President W. H. Grenell, Pierrepont Manor, N. Y., Secretary C. E. Kendell, Cleveland, O., C. N. Page, Des Moines, Ia., I. F. Willard, Wethersfield, Conn., M. H. Duryea, N. Y. City, F. W. Bolgiano, Washington, D. C.; V. P. Stokes, H. W. Johnson, W. A. Burpee, H. M. Earl, Burnet Landreth of Philadelphia, C. H. Breck, Boston.

NASSAU COUNTY, N. Y., HORTICULTURAL SOCIETY.

This society held its regular monthly meeting on Wednesday, Jan. 3. It was the largest attended meeting in the history of the society. President Harrison occupied the chair. Four new members, including William F. Ross, representing F. R. Pierson Co., Tarrytown, N. Y., who was present, were elected to active membership. Mrs. E. R. Ladew was elected an honorary member. It was decided to hold the society's annual dinner on January 27.

BUSINESS CHANGES.

The business of Jacob Bauers, of Cleveland, O., has been purchased by Fred Moritz, who has transferred the plant to his present location, 62 Edmunds street.

Lion & Wertheimer, 463 Broadway, New York, have dissolved partnership. Wertheimer Bros. will be the name of the firm hereafter.

At the last meeting of the Board of Trade of Providence, R. I., resolutions were adopted favoring the enactment of such legislation by Congress as should be needed to preserve the New Hampshire forests.

PHILADELPHIA NOTES.

Frank Ross, 206 East Girard Ave., has failed. At a meeting of the creditors held on the 6th inst., the liabilities were stated to be \$3,200; assets \$300.

Peter J. Schembs, 629 North 17th St., has opened a branch store in the basement N. E. corner 15th and Chestnut Sts.

Chas. P. Braslan, of the Braslan Seed Growers' Co., California, was a visitor this week; also Lloyd Blick, Norfolk, Va.

Mr. Taat, representing M. Van Waveren & Sons, visited us this week. He is the advance guard of the forty or more Holland men who will arrive on this side during the next few weeks. This annual influx is setting in earlier and more severe than ever.

Robt. Forrest, for many years head gardener for Beauveau Borie and later with Robert Craig & Son, has accepted the position as grower for the Colfax Floral Co., Denver, Col. Mr. Forrest has shown his ability at many of our local shows and will doubtless give a good account of himself in his new field.

Dennison Bros., Bala, had a fire in their boiler shed on the 8th inst., which put their heating system out of business. Unfortunately this mishap occurred just when a severe cold spell struck this locality and the resulting loss in stock is estimated at \$5,000. Much sympathy is expressed for the firm under this severe misfortune.

The program for the Farmers' Institute for Philadelphia County has now been completed. This event will take place in conjunction with the monthly meeting of the Horticultural Society, Tuesday, 16th, afternoon and evening. Edwin Lonsdale is chairman.

Alex. B. Scott thinks Richmond has the field not because Liberty isn't the better rose but because the other is almost as good, and most people can grow it.

PACIFIC COAST NOTES.

New Year's day weddings are getting to be all the go in the Pacific Coast States and the demand from the country towns and hamlets for San Francisco-made flower pieces on these occasions makes a perceptible increase in the volume of holiday business.

It is estimated that 50,000 visitors were in Pasadena on New Year's day to witness the rose carnival celebration which has become one of the annual features of Southern California's winter season. The day was disagreeably cold but the show was worth seeing, the various vehicles being beautifully decorated with every flower that thrives at this season of the year.

PERSONAL.

D. Lumsden, late of A. Leuthy & Co., has been engaged as manager for the Wm. W. Edgar Co. at Waverley, Mass.

A Schulthies, College Point, N. Y., has been critically ill for several weeks with little hope of recovery but we are glad to state that he is now convalescent.

NEWS OF THE CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

At the January meeting of this club last Monday night, fifty members were present. The new officers were installed, various committees presented their annual reports, all being very gratifying, and same were duly accepted. The new president, John Scott, was introduced by retiring President F. H. Traendly, and was given a very cordial reception. In his opening address he expressed appreciation for the honor conferred on him. He recognized the high standard of efficiency reached by his predecessors and expressed his desire to maintain the same through the coming year. In an outline of the practical work which he hoped to see carried forward, he urged that the membership list be largely increased, that the system of exhibiting novelties, etc., at the meetings be encouraged, that lectures and essays with free discussions be promoted, approved the holding of small public exhibitions at intervals in an inexpensive way, the encouragement of the social features, and advocated ladies' nights and other recreations as desirable to hold the interest of the younger element.

The other officers-elect all spoke briefly also. Committees on legislation, essays, outing, awards, exhibition, entertainment and annual dinner were appointed, and resolutions on the death of Mrs. C. L. Allen were presented. Six new members were elected and eight more were proposed. The election to fill vacancies on board of trustees resulted in the selection of J. B. Nugent for the two-year term, and A. L. Miller for one year. The secretary's report showed that thirty new members had been added during the year, and the average attendance at the ten meetings had been sixty-two. The committee on awards reported on the exhibits of the evening, that carnation Robert Craig, shown by Cottage Gardens, received a certificate at a former exhibition, but the flowers now shown showed that its qualities were still fully maintained; that carnation Victory had also received a certificate previously; that a number of promising seedlings were shown by R. C. Pye, also the beautiful pink variety Senator Crane, to which the committee recommended a preliminary certificate. An invitation to attend the annual smoker of the Morris County Gardeners' and Florists' Club at Madison, N. J., on the evening of Jan. 10, was accepted with thanks.

The question of holding a pre-tenacious flower show during the coming season was then taken up and freely discussed, Messrs. O'Mara, Guttman, Jas. Scott, Wallace, Nugent, Wheeler, Pepper and Ward participating. The experiences of the club in past years in the exhibition were rehearsed in detail and the various phases of New York patronage and facilities as compared with those of other cities analyzed. The fact that for the past two years the field had been covered acceptably by the American Institute and Horticultural Society being recognized it was voted that the matter be referred to the board of trustees for consideration and report at the next meeting of the club. The suggestion

of a free exhibition at the Newsboys' Home was referred to the exhibition committee.

MADISON GARDENERS' AND FLORISTS' CLUB.

It has been said that happiness was born a twin and that solitary happiness is an impossibility. The Madison, N. J., fraternity run business on this precept, undoubtedly, and so when there is a "smoker" at Madison there is no dearth of company. Again the annual smoker has passed into history with a big credit to its name. Over one hundred were in attendance last Wednesday evening. Up to present writing a few of them had got home. The program consisted of some routine business in which the treasurer participated with the record of a big bank balance and then a wide-open good time, with recitations, banjo solos, soliloquies and other diversions frequently interrupted by trays of viands such as no sane visitor could refuse. All roads led to Madison Wednesday evening and the travelers thereon were all of one mind. There is no rival for the Madison smoker. It is unique.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual meeting of the Massachusetts Horticultural Society on Saturday, January 6, was presided over by Vice-President Walter Hunnewell in the absence of President Estabrook. The report of the treasurer showed the invested funds of the society to amount to \$831,396.88.

The first exhibition for the year 1906 will be held at Horticultural Hall on Wednesday and Thursday, January 24 and 25. It will consist principally of primulas, begonias, violets, and vegetables, and will be held in connection with the annual meeting and exhibition of the American Carnation Society.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY.

The regular meeting of this society was held in their hall in the Currier Building, on Tuesday, Jan. 2, a large number of members being present. Officers for the coming year were elected as follows: Robert D. Pryde, president; John H. Murray, vice-president; Thomas Pettit, secretary; David Kydd, treasurer. Board of Managers: A. J. Thompson, F. Duffy, James Moore, Richard Bell and Robert Paton.

The treasurer's and secretary's reports show that the society is in a very flourishing condition, and that the last exhibition was a financial success. Scarcely a meeting passes but what new members are elected. The membership is now about 125.

AMERICAN CARNATION SOCIETY.

A delegation of the reception committee of the Boston Gardeners' and Florists' Club will meet all trains at the North and South terminals, the Back Bay station of the New York, New Haven and Hartford, and Trinity Place station of the New York Central railroad on Wednesday A. M., January 24, 1906. Members of this committee will wear a red badge.

CHICAGO FLORISTS' CLUB.

A well attended meeting of the Chicago Florists' Club was held Dec. 28 at Handel Hall. Carnation Aristocrat, recently purchased by the Chicago Carnation Co., was on exhibition and elicited admiring comment from all present. The records of the Chicago Flower Show were reviewed and showed about \$5000 on the right side of the ledger. A number of new members were installed, as were also the new officers as follows: P. J. Hauswirth, president; Leonard Kill, vice-president; Ed. Sanders, treasurer; Geo. Asmus, financial secretary; L. H. Winterson, recording secretary. Frank Benthley, W. L. Palinsky, H. N. Bruns, J. Reardon, J. T. Klimmer, trustees for 1906.

The next meeting will be held Thursday, Jan. 18, 1906, at Handel Hall.

NATIONAL NUT GROWERS' ASSOCIATION.

The proceedings of the third annual convention of this association, which was held in St. Louis, Mo., October, 1904, is a most interesting and valuable pamphlet of 150 pages.

It gives all of the twelve formal addresses, a full report of the various practical discussions, important statistical tables, reports of standing and special committees, cuts of executive officers, names of all officials, with roll of new members and carefully selected advertisements. Any one interested in nut culture will find this volume a most valuable and fascinating work.

Copies can be obtained of the secretary, J. F. Wilson, Poulan, Ga., for 25 cents, plus cost of postage which is four cents per copy.

TARRYTOWN HORTICULTURAL SOCIETY.

The annual meeting of the above society was held on Thursday evening, Dec. 28. The chief business was the election of officers for 1906. Joseph Mooney, Hastings, N. Y., was elected president; Howard Nichols, Yonkers, N. Y., vice-president; C. W. Neubrand, Tarrytown, secretary; James T. Lawrie, Tarrytown, treasurer; James Ballantyne, Tarrytown, corresponding secretary.

The secretary's report showed that the society had 145 active members in good standing, 42 honorary, and 5 life members. The treasurer's report showed a substantial balance in favor of the society. Eleven new members were elected at this meeting and four names proposed for membership.

The monthly prize donated by David McFarlane for eighteen carnation blooms was won by Abel Weeks. John Featherstone, gardener to Samuel Untermeyer, Yonkers, showed a beautiful hanging basket of begonia Gloire de Lorraine, which was declared by the members to be the best-flowered specimen of this popular begonia ever shown in this section. At a meeting of the executive committee held on Tuesday evening, Jan. 2, the date of the annual dinner was fixed for Jan. 17, to take place at the Florence Hotel, Tarrytown. Tickets may be had from E. W. Neubrand, secretary.

WILLIAM SCOTT, Cor. Sec.

"GLENDALE"

New Variegated Carnation

Markings similar to Mrs. G. M. Bradt. A very large flower on strong stems, extremely free and healthy. A non-burster. A fancy of the highest type.

Sample blooms expressed at \$1.00 per dozen. All our carnations have been rather late this season as elsewhere. That is the reason we have not been advertising "GLENDALE" as well as other varieties more extensively.

Rooted Cuttings \$12.00 per 100: \$100.00 per 1000.

Introducers { **Chicago Carnation Co., Joliet, Ill.**
W. J. & M. S. Vesey, Ft. Wayne, Ind.

LENOX HORTICULTURAL SOCIETY.

The regular meeting of this society was held Saturday, January 6th, President S. Carlquist in the chair. The essay and entertainment committee have arranged a program for every meeting until May. The annual report will be printed before the next meeting; copies will be furnished by the secretary upon application. The society has accepted a silver cup offered by F. R. Pierson Co., Tarrytown, N. Y., to be competed for at its next Chrysanthemum Show, from their list of novelties for 1906. Grenvill Winthrop, Esq., presented to the society two cases of the gypsy and brown-tail moths, with eggs, cocoons, caterpillars, male and female moths.

The annual ball will be held February 6th. After adjournment a social hour was enjoyed.

NEW DIRECTORS OF THE SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

President W. F. Kasting has appointed as directors for the term of three years, Messrs. F. H. Traendly



F. H. TRAENDLY.
New York, N. Y.

NEW CASTLE FLORIST CLUB.

The organization known as the New Castle Florists' Club held its first meeting Dec. 5, 1905, to organize and make by-laws, which were adopted at a special meeting called one week later, when it elected officers as follows: President, Ernest Bender; vice-president, George Staff; secretary and treasurer, Frank Benthays; directors, G. Wiedenhoef, O. Staub, Charles Rathjen and Jack Lenon.

This club was founded for social purposes only. Meetings will be held on the last Tuesday in each month, and semi-annual meetings in July and January.

The annual meeting of the New Hampshire Horticultural Society will be held at the rooms of the State Board of Agriculture, January 17, at 11 a. m.

and P. J. Hauswirth. For the unexpired term (one year) of H. M. Altick, who was elected vice-president at the last convention, he has named H. H. Ritter. The two first-named gentlemen need no introduction to our readers. As representing the younger and hustling components of the national society they may be expected to do much to rally around the young president that enthusiastic support and esprit de corps which, added to the unswerving loyalty of the older and more conservative element, will make the Dayton convention a noteworthy event and mark the administration of 1906 as a brilliant and popular success. Both of these gentlemen have given repeated evidence of their capacity for organization and leadership in their respective communities. Mr. Traendly has just completed a two years' term as president of the New York Florists' Club, and Mr. Hauswirth is entering on a similar service in the Chicago Florists' Club. Both have been prominently identified with the bowling diversions at the S. A. F. conventions, Mr. Hauswirth having served as chairman of the committee on sports.

Mr. H. H. Ritter is one of the old staunch members of the S. A. F., whose name has been uninterruptedly on the roll from the first convention at Cincinnati. His selection is an appropriate recognition of sturdy fidelity

NEWPORT HORTICULTURAL SOCIETY.

The society's first regular meeting of the new year was held on Wednesday evening, January 3, President Alexander MacLellan in the chair. The committee's report of the ball recently held showed a balance to the credit of the society of upwards of one hundred dollars. While the committee as a whole deserve credit for the result noted, the society recognized Mr. W. F. Smith in particular as the member on whom a great part of the work fell and who did it with his usual good will and energy. Mr. Smith and the committee received the thanks of the society.

On January 23rd the society will have a supper to celebrate its 15th anniversary. If precedents count for anything, this occasion will be one to be long remembered.

and of the section which contributed so much to the good start made at that first meeting.



P. J. HAUSWIRTH.
Chicago, Ill.

"Aristocrat"

Announcement.

We herewith confirm the reports, so far as our purchasing the above carnation is concerned. We intend to disseminate same January 1st, 1907. We do not think it necessary at this time to commence boasting of its good qualities and commercial value that has been proven and will be proven again to your satisfaction.

We are now soliciting orders for January delivery and while we do not make a specialty of booking orders subject to cancellation we believe that to cancel is everyones right, if a variety does not live up to its reputation and we respect it if done right and honorably. Orders are already coming in heavily and we strongly advise your placing orders immediately as January bookings will soon be closed.

"Aristocrat" is O. K. and you will not be able to help yourself from buying it later, so place order now as we shall not over book ourselves on it, as we must make good and that is one of our reasons for securing it.

Color: brighter than Lawson, a little brighter shade. Calyx; does not burst. Habit of growth; taller than Enchantress, more wirey and more free. Produces cuttings freely which root easily. Has no disease of any description. Size, as large as Enchantress but form more perfect than any other carnation.

Rooted Cuttings \$12.00 per 100; \$100.00 per 1,000; 5,000 \$450.00; 10,000 \$800.00.

CHICAGO CARNATION CO., James Hartshorne, Mgr., Joliet Ill.

WANTS.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th Street, Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

FOR SALE.

Well established Florist business, 6000 feet glass, well stocked with carnations, violets, bedding plants, palms, etc. Splendid location on corner of two main avenues leading towards the best part of principal residential districts. Excellent home trade and good field for landscape gardening; no competition as yet. Store attached to greenhouse with electric light. Commodious house with modern improvements. Barn, shed, good water supply. Excellent opportunity for progressive florist. Reason for selling, wish to retire from business. Apply to F. S. MENSE, Glen Cove, L. I., N. Y.

WANTED—A first class orchid man to take charge. Address, stating all particulars, N. E. H., care Horticulture, 11 Hamilton Place, Boston.

CATALOGUES RECEIVED.

Golden State Plant and Floral Company, Santa Monica, Cal., souvenir for 1906. A collection of lovely views in Santa Monica, where perpetual summer reigns.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

Announcement To the Trade

We beg to announce that we have purchased the property and business of the L. K. PEACOCK, INC., including the entire stock of the Peacock Dahlias, and will continue the business on a more extensive scale.

We have secured the services of Mr. L. K. Peacock and all the experts who have been associated with him. Mr. Peacock has been identified with the trade for the past twenty years, and during that period has produced such noted varieties as *Nymphaea*, *Clifford W. Bruton*, *William Agnew*, *Miss May Lomas*, *Storm King*, *Snow Clad* and over fifty other standard varieties, not to mention the Twentieth Century and the subsequent Century collections.

The past season was a most favorable one for Dahlias, and as every plant bloomed freely we offer our stock as the best grown, and absolutely true to name.

We are prepared to fill all orders promptly and are now booking contracts for 1907.

Our 1906 Catalogue will be ready for distribution early in February, and will be mailed to each of our customers and others upon application.

DAVID HERBERT & SON,

Successors to

L. K. PEACOCK, Inc.
ATCO, NEW JERSEY.

FOR SALE

A first class cut under platform spring wagon, and also a first class top wagon, cut under, French plate glass on side, with a good reliable horse. Will sell cheap after the holidays.

Good for city, country, commercial grower or retail florist's use. CHAS. MIL-LANG, 50 West 29th St., N. Y.

Are You To Build? Going....

I am interested in a glass factory in Jersey. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted.

NOT IN THE TRUST.
Address

George C. Watson

1614 LUDLOW STREET Philadelphia, Penn.

Remember this factory is NOT in the TRUST and has a free foot.

CLAY'S FERTILIZER

Endorsed by the crowned head of England. An imported product. 56 lb. Bag, \$4.00.

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CALIFORNIA PRIVET.

A large stock of two and three year old (transplanted), from 12 inches to four feet well finished plants at very low prices for quality of stock. Get my prices before purchasing. Satisfaction guaranteed. Address,

CHARLES BLACK,
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Standard Flower.. POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money

W. H. ERNEST,
28th and M Streets WASHINGTON, D. C.

We have a good opening for a grower of lily of the valley and general bulbous stock. Would like to communicate with growers of good bulbous flowers. Can handle them at good prices. Also asparagus plumosus. Let us hear from you.

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Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

Artistic Designs High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

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546 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
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SAMUEL MURRAY Florist

Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO.
Both 'Phones 2670 Main

FRED C. WEBER FLORIST

4326-28 OLIVE STREET ST. LOUIS, MO.
Established 1873
Long Distance Phone Bell Lindell 676

Blackstone Florist
14th and H Sts. N.W.
Washington, D. C.

BELATED HOLIDAY REPORTS.

Kansas City reports a banner Christmas for flowers as well as for plants. The demand was unprecedented for flowering plants. In flowers everything except orchids and American Beauty roses sold rapidly at excellent prices. On these two items demand dragged at prices retailers were compelled to ask.

The activity of San Francisco's cut flower and blooming plant market between Christmas and New Year's, was something unprecedented. Several florists told me it is becoming the custom with the great Jewish population of the city to line up with the prevailing American custom to give floral presents at this time, as they do so liberally on their own New Year holiday. The past four days, since the close of 1905, the florists have enjoyed a comparative state of rest, a feeling they had not experienced since three or four days before Christmas. All seasonable cut flowers and blooming plants and greens are still plentiful, American Beauty roses only being the exception.

"ARISTOCRAT."

Considerable free advertising has been given to this famous carnation by the daily press all over the country. We florists at one time used to figure such stories of \$30,000 and \$40,000 for a new carnation as absurd and hurtful and were ashamed of them when questioned in regard to their reliability by the public. But of late years we have come to realize that these same stories have advertised and helped our business to a considerable extent and have hurt no one in the least. Let me state, however, that neither the originator, Mr. Witterstaetter, nor the Chicago Carnation Company, are seeking notoriety by these methods. The price my company paid for "Aristocrat" has not been divulged nor do we intend it shall be, as that part of it concerns no one but the parties to the contract. It is hardly necessary for me to tell the florists that no such sum was paid for it; at the same time we both hope and believe that "Aristocrat" will be worth all and more than \$40,000 to the trade. I personally have watched "Aristocrat" for the past three or four years and have seen it grown under various conditions and at different times of the year. I was so impressed with it last season, long before the January Carnation Meeting, that I tried to purchase it, but Mr. Witterstaetter turned a deaf ear to all my proposals, saying he intended to convince himself by a further and thorough trial that "Aristocrat" should not leave his place, either by selling it outright, or by dissemination until he was sure it was all we thought it to be. As the variety is now five years old and he has been able to grow it in quantity, our highest hopes as to its value in every respect have been realized. Hence the sale (the greatest that ever was).

"Aristocrat" in color is a trifle lighter than Lawson and very much brighter and is expected to displace that grand old variety in the hearts and greenhouses of every one.

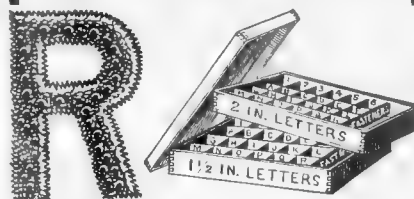
When I first saw the Lawson, and even after my company failed to get possession of it, I predicted that it would be grown after all carnations of that day were out of business. It was hard for me to make many florists believe that, but my judgment, as you now know, was not misplaced. I now claim that "Aristocrat" is just as far superior to present-day varieties as Lawson was in its day, and will live longer than any variety I know of, but to be thoroughly appreciated it should be seen growing at Witterstaetter's, Cincinnati, who will make an attempt to show it in good shape at Boston this month, notwithstanding the fact that his train leaves at noon on Monday and the flowers will not be judged until Wednesday afternoon. It can also be seen at William Nicholson's, Framingham, Mass., in a small quantity.

JAMES HARTSHORNE.

C. C. Yost, the florist, of Lebanon, Pa., opened a new store at 154 N. 8th street, just before Christmas.

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our Metal Designs, Baskets, Wire Work & Novelties and are dealers in Glassware Decorative Greens and Florists' Requisites.

Always enterprising, we are now ready with a fine line of Easter Baskets.

Buy your Florist Supplies of

J. STERN & CO.

1928 GERMANTOWN AVE., PHILADELPHIA, PA.
Per postal

WILLIAM J. BOAS & CO.

MANUFACTURERS OF

Folding Flower Boxes

No. 1042 Ridge Avenue, Philadelphia
Write for Price List and Samples
In writing advertisers, mention Horticulture

H. BAYERSDORFER & CO

50-56 North 4th Street
PHILADELPHIA, PA.

FLORISTS' SUPPLIES

BEST LINE IN THE COUNTRY

E. A. BEAVEN

Wholesale Dealer in

SOUTHERN WILD SMILAX

and Florists' Hardy Decorative Supplies.
New crop now ready in limited quantities.
EVERGREEN, ALA.

Decorating Evergreens, etc., at Wholesale

Wild Smilax, Palmetto and Cycas (fresh cut), Palm Leaves, Galax, Leucothoe, Ferns and Mosses, Leaf Mold, Orchid and Azalea Peats.

Everything in Season.

THE KERVAN COMPANY

20 West 27th St., New York.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

A. Gude & Bro.

FLORISTS

1214 F ST., WASHINGTON, D. C.

WILD SMILAX

\$3.50 and \$5.00 per case

THE LEO NIESSEN CO.

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1217 Arch St., - PHILADELPHIA
Store Open 7 A. M. to 8 P. M.

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Cut Flowers

"THE OLD RELIABLE"

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In writing advertisers, mention Horticulture

Weiland & Risch

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Long Distance Phone Central 879.

In writing advertisers, mention Horticulture

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Wholesale

Commission Florists

If you wish to buy or sell, see them first
'PHONE CENTRAL 2571

60 WABASH AVE., CHICAGO

In writing advertisers, mention Horticulture

Fine Bouvardia Valley CARNATIONS

W. J. Baker, 1432 So. Penn Sq.
PHILA.

In writing advertisers, mention Horticulture

White Lilacs

\$1.00 per hundred

and

White Violets

Samuel S. Pennock

THE WHOLESALE FLORIST OF PHILA.

1612-1618 Ludlow Street. Store closes 8 P. M.

WIETOR BROS.

Wholesale Growers of

CUT FLOWERS

51-53 Wabash Ave., CHICAGO, ILL.,

In writing advertisers, mention Horticulture

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids

Valley Violets and all Cut Flowers

A Daily Shipment

From 40 to 60 Growers

We can and will take care of your Cut
Flower and Supply Wants to advantage

E. F. WINTERSON CO. 45-47-49 Wabash
CATALOGUE FREE CHICAGO

PETER REINBERG
WHOLESALE

CUT FLOWERS

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO Jan. 10	ST. LOUIS Dec. 18	PHILA. Jan. 9	BOSTON Jan. 11
ROSES				
Am. Beauty and Edgely Fan. & Sp.	40.00 to 50.00	..... to	60.00 to 75.00	40.00 to 60.00
Extra.....	25.00 to 40.00	..... to	40.00 to 50.00	20.00 to 30.00
No. 1.....	16.00 to 24.00	..... to	25.00 to 35.00	12.00 to 15.00
Lower grades.....	6.00 to 8.00	..... to	8.00 to 10.00	4.00 to 8.00
Bride & 'Maid—Fan. & Sp.....	8.00 to 10.00	..... to	15.00 to 20.00	8.00 to 12.00
Extra.....	7.00 to 8.00	..... to	12.00 to 15.00	6.00 to 8.00
No. 1 and Lower gr.....	5.00 to 6.00	..... to	5.00 to 10.00	2.00 to 6.00
Liberty, Fancy.....	8.00 to 10.00	..... to	25.00 to 30.00	12.00 to 25.00
Ordinary.....	4.00 to 8.00	..... to	8.00 to 15.00	8.00 to 12.00
Richmond, Fancy.....	8.00 to 12.00	..... to	20.00 to 30.00	25.00 to 50.00
Ordinary.....	4.00 to 8.00	..... to	10.00 to 15.00	8.00 to 12.00
Golden Gate, Fancy.....	3.00 to 10.00	..... to	12.00 to 15.00	8.00 to 12.00
Ordinary.....	6.00 to 8.00	..... to	6.00 to 10.00	2.00 to 6.00
Chatenay, Fancy.....	10.00 to 12.00	..... to	20.00 to 25.00	8.00 to 10.00
Ordinary.....	6.00 to 8.00	..... to	6.00 to 10.00	2.00 to 4.00
CARNATIONS				
Fancy.....	4.00 to 5.00	..... to	3.00 to 6.00	3.00 to 4.00
Ordinary.....	1.50 to 2.50	..... to	2.00 to 3.00	1.50 to 2.00
MISCELLANEOUS				
Cattleyas.....	40.00 to 50.00	..... to .....	..... to 75.00	..... to 50.00
Cypripediums.....	12.00 to 16.00	..... to .....	..... to 15.00	..... to 12.00
Lily of the Valley.....	3.00 to 4.00	..... to	2.00 to 5.00	2.00 to 4.00
Violets.....	.75 to 1.50	..... to .....	.50 to 1.25	.50 to .75
Tulips.....	..... to .....	..... to .....	..... to	2.00 to 3.00
Romans Hyal. Paper White, Nar.....	3.00 to .....	..... to	2.00 to 3.00	1.00 to 2.00
Daffodils: Trumpets.....	4.00 to .....	..... to	5.00 to 6.00	2.00 to 4.00
Mignonette.....	6.00 to 10.00	..... to	4.50 to 5.00	2.00 to
Adiantum Cuneatum.....	..... to .75	..... to .....	.75 to 1.00	.75 to 1.00
Croweanum.....	..... to 1.00	..... to	1.25 to 1.50	..... to 1.50
Smilax.....	12.00 to 16.00	..... to	12.50 to 15.00	8.00 to 12.00
Asparagus Plumosus, strings.....	40.00 to 50.00 to	25.00 to 50.00 to
" & Sprenger, bunches	30.00 to 35.00 to	25.00 to 50.00 to 50.00

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Carnations
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Cut Flower Market Reports.

BOSTON Trade during the past week has been rather quiet, with a remarkable increase in the supply and prices have been reduced accordingly. This has been particularly noticeable with violets and carnations. Enchantress and Lawson have had the largest call; white carnations have moved rather slowly. The demand for American Beauties is fairly good. Bride and Bridesmaids sell well at prices about the same as last week. The demand for lily of the valley has increased. Roman hyacinths, paper white and yellow narcissi are coming in in large quantities.

BUFFALO Cloudy weather together with heavy storms the past week, made stock still a little scarce, but there was enough to go around. Roses came in somewhat better and cleaned up quickly. Much funeral work being in demand caused white material to move freely. Sales of Beauties, Liberties, lily of the valley and violets were nearly at a stand-still, but livened up to some extent at the end of the week. The carnation crop was fairly good, and excellent stock could be seen; fancy selling at sight, while ordinary needed a little urging at times. Peas, mignonette and green goods in moderate supply. Prices changing a little to a decline.

CHICAGO "He that has the last say has the best say," and so it is with Chicago. If you ask a wholesaler, a retailer, or a grower regarding the holiday trade, they all say it was stupendous, and

outdistanced everything within the last ten years. A pronounced shortage of Beauties of the fancy type made itself felt before Christmas, and was at its height before New Year's day. Quotations were exceeded in every instance, Beauties bringing as high as \$150 per hundred. Good Bridesmaids brought \$25. All pink roses were very scarce. Killarney sold as high as \$35 per hundred for good stock, and there was not enough to go around, although it was the only rose that was not seriously interfered with by the dark weather preceding Christmas. There were plenty of Liberty, and many Beauty enthusiasts had to be content with this as a substitute for America's favorite. Immense quantities of Uncle John roses were sold by one house and found a ready market, replacing Chatenay and Bridesmaids. All told, roses were very scarce, and goods that would not bring over \$1 ordinarily brought fifteen times that price in mixed lots. The greatest demand existed for red flowered and berried plants, red material bringing almost any price demanded. There was a sufficiency of greens such as lycopodium, etc., which arrived at the last moment, but good holly was scarce. A novelty in the Chicago market were the spruce tops from Maine, and tops covered with cones brought from \$50 to \$100, according to size, and were eagerly taken at that price. There was an insurmountable shortage in Christmas bells. The demand was also good for carnations and fancy goods were scarce, finally climbing to \$15 per hundred. Narcissi, Roman hyacinths, callas, mignonette, etc., were taken eagerly and the demand for smilax also exceeded expectations. Through all the rush the Chicagoan never lost his stoicism, but calmly ordered his Christmas flowers with the remark that there seemed no way out of it—the flowers are needed and we'll pay for them, their motto, "I will," being carried out to the letter. The year 1905 looked poor for a starter, but it wound up as the banner year after all, and now, away we go to "whoop 'er up" for a happy and prosperous 1906.

The cut flower market **CINCINNATI** has been quite active during the past week, chiefly due to the scarcity of first-class stock. Business has settled down to that steady gait which we all so much like to see; nearly all stock is just scarce enough to keep the price firm. Funeral work has been an important factor in moving the cheaper grades, and the usual holiday reaction has not been felt to any extent. Easter lilies are scarce; this is chiefly due to the large number of longiflorum bulbs substituted for Harrisii. Bulbous stock, such as Roman hyacinths and paper whites, is not over plentiful and moves fairly well. A few tulips can be seen

here and there, but they are too short-stemmed to be of much use. The supply of violets exceeds the demand, consequently the price has taken a drop. Asparagus, smilax and adiantum seem to have been pretty well used up for the holiday trade, and will be scarce for a while.

LOUISVILLE Business conditions the past week were up to the standard, stock moving very nicely. Carnations were in the lead, their quality and supply being up to expectations. The quality and supply of roses is fair, and there is nothing the matter with the demand. Violets and lilies of the valley are breaking records on demand and quality, but the supply of the former is not so very encouraging. Other stock, such as hyacinths, narcissi, etc., meets with a satisfactory demand.

NEW YORK Business is fairly satisfactory. Carnations are selling rather slow and at low figures for the quality which is generally excellent. The demand for large roses is brisk. Tulips and other bulbous stock are being received in increasing quantity and improved quality.

PHILADELPHIA. On the whole we are justified in reporting trade as fair for the season. The week after New Year's is always a little slow. This year was about the usual. The worst slump was in carnations which, on account of the bright weather, came in freely. Of course, the rose market dropped quite a little also. Beauties fared the best, as there were quite a number of important functions which took a large quantity of these. Gardenias have been very scarce, and 75 cents a bloom has been the ruling wholesale figure, but they are now more plentiful, with price in proportion. White violets have a limited market on orders. The demand as yet is too intermittent to warrant carrying stock. White lilac sprays are popular and fairly plentiful at present. Cypripediums are rather scarce, but other orchids are in normal supply.

TOLEDO Christmas and New Year's business has been a little better here than last year and the first week of this month is reported as having been specially good. There were no special novelties offered in the stores; either our town has not been struck yet by the people who want something special or the florists have not the grit to offer something out of the ordinary which I believe is the case; if goods are not offered they cannot be sold. Carnations are coming along now very nicely and roses have been doing well too; in bulbous stock nothing but white Roman hyacinths and paper white narcissi are offered.

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	Last Half of Week ending Jan. 6 1906	First Half of Week beginning Jan. 8 1906		Last Half of Week ending Jan. 6 1906	First Half of Week beginning Jan. 8 1906
Roses			Carnations		
Am. Beauty and Edgeley fan and sp.	40.00 to 50.00	40.00 to 60.00	Fancy	5.00 to 8.00	4.00 to 8.00
" extra	25.00 to 35.00	25.00 to 35.00	Ordinary	2.00 to 4.00	1.50 to 3.00
" No. 1	15.00 to 20.00	15.00 to 20.00	Cattleyas	40.00 to 50.00	40.00 to 50.00
" Lower grades	3.00 to 10.00	3.00 to 8.00	Cypripediums	8.00 to 15.00	10.00 to 12.00
Bride & "Maid, fan and sp.	10.00 to 15.00	10.00 to 15.00	Lily of the Valley	2.00 to 5.00	2.00 to 3.00
" extra	8.00 to 10.00	6.00 to 10.00	Violets .....	.50 to 1.00	.40 to 1.00
" No. 1 and lower grades	2.00 to 6.00	2.00 to 6.00	Tulips	2.00 to 3.00	2.00 to 3.00
Liberty, fancy	2.00 to 35.00	15.00 to 25.00	Roman Hyacinth, Paper White Nar.	1.00 to 2.00	1.00 to 2.00
" ordinary	3.00 to 10.00	3.00 to 10.00	Daffodils, Trumpets	2.00 to 3.00	2.00 to 3.00
Richmond, fancy	2.00 to 35.00	10.00 to 25.00	Niglonette	2.00 to 6.00	2.00 to 6.00
" ordinary	1.00 to 10.00	1.00 to 10.00	Adiantum .....	.75 to 1.25	.75 to 1.25
Golden Gate, fancy	12.00 to 20.00	10.00 to 15.00	Cuneatum	1.00 to 1.50	1.00 to 1.50
" ordinary	3.00 to 8.00	3.00 to 6.00	Croweanum	8.00 to 12.00	8.00 to 12.00
Chatenay, fancy	10.00 to 12.00	8.00 to 10.00	Smilax	25.00 to 35.00	25.00 to 35.00
" ordinary	1.00 to 6.00	3.00 to 6.00	Asparagus Plumosus	15.00 to 20.00	15.00 to 20.00
			" & Sprenger, bunches		

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WHOLESALE FLOWER MARKETS. — PER 100. — TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	Jan. 9		Jan. 8		Jan. 9		Jan. 8	
ROSES								
Am. Beauty and Edgerly, fan and sp	40.00	to 50.00	10.00	to 75.00	50.00	to 60.00	65.00	to 75.00
" extra	.....	to 35.00	.....	to 25.00	.....	to 50.00	30.00	to 50.00
" No. 1	.....	to 25.00	.....	to 15.00	.....	to 25.00	12.50	to 15.00
" Lower grades	10.00	to 20.00	.....	to 8.00	.....	to 15.00	.....	to 5.00
Bride and Maid, fan. and sp.	.....	to 10.00	.....	to 15.00	12.00	to 15.00	12.00	to 15.00
" extra	6.00	to 8.00	.....	to 10.00	10.00	to 12.00	.....	to 10.00
" No. 1 and Lower gr	4.00	to 5.00	.....	to 6.00	4.00	to 10.00	6.00	to 8.00
Liberty, fancy	10.00	to 12.00	.....	to 12.00	10.00	to 15.00	10.00	to 20.00
" Ordinary	6.00	to 8.00	.....	to 5.00	10.00	to 12.00	6.00	to 8.00
Richmond, Fancy	.....	to 10.00	.....	to 10.00	.....	to 15.00	15.00	to 20.00
" Ordinary	.....	to 6.00	.....	to 6.00	.....	to 8.00	8.00	to 10.00
Golden Gate, Fancy	8.00	to 10.00	.....	to 10.00	10.00	to 12.00	10.00	to 12.00
" Ordinary	4.00	to 6.00	.....	to 6.00	6.00	to 10.00	6.00	to 8.00
Chatenay, Fancy	.....	to 10.00	.....	to 10.00	.....	to 10.00	10.00	to 15.00
" Ordinary	.....	to 6.00	.....	to 6.00	.....	to 6.00	6.00	to 8.00
CARNATIONS								
Fancy	4.00	to 5.00	.....	to 3.00	4.00	to 6.00	4.00	to 5.00
Ordinary	2.00	to 3.00	.....	to 5.00	2.00	to 3.00	1.50	to 2.00
MISCELLANEOUS								
Cattleyas	.....	to 50.00	.....	to 25.00	.....	to 12.50	.....	to 15.00
Cypripediums	.....	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Lily of the Valley	3.00	to 4.00	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Violets	1.00	to 1.50	2.00	to 3.00	1.00	to 1.50	1.00	to 1.50
Tulips	4.00	to 6.00	2.00	to 3.00	.....	to 3.00	1.00	to 5.00
Roman Hyacinth Paper White Nar	3.00	to 4.00	.....	to 3.00	2.50	to 3.00	2.00	to 4.00
Daffodils Trumpets	.....	to 1.00	1.00	to 4.00	.....	to 4.00	4.00	to 6.00
Mignonette	.....	to 1.00	1.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Adiantum Cuneatum	1.00	to 1.50	1.00	to 2.00	1.50	to 1.00	1.50	to 2.00
" Crowneum	.....	to 1.25	.....	to 1.25	1.50	to 1.50	1.00	to 1.50
Smilax	12.00	to 15.00	.....	to 15.00	12.00	to 15.00	10.00	to 15.00
Asparagus Plumosus, strings	40.00	to 50.00	to 1.00	40.00	to 50.00	30.00	to 50.00
" & Sprenger, bunches	to 35.00	to 25.00	to 50.00	to 50.00

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J. M. Thorburn & Co.,

36 Cortlandt St., New York.

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Suzuki & Iida, 31 Barclay St., New York.

Lily Bulbs.

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H. F. Michell & Co.,

Philadelphia, Pa.

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CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.

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CARNATIONS.

John H. Slevers & Co., 1251 Chestnut St.,

San Francisco, Cal.

Hannah Hobart.

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J. D. Thompson Carnation Co., Joliet, Ill.

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H. A. Stevens Co., Dedham, Mass.

Rooted Cuttings Variegated Lawson.

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Alex. J. Guttman, 43 W. 28th St., N. Y.

Carnation Victory.

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C. H. Totty, Madison, N. J.

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Patten & Co., Tewksbury, Mass.

Pink, Patten and Mikado Carnations.

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S. S. Pennoek, Philadelphia.

John E. Haines, My Maryland.

Henry Eichholz, Waynesboro, Pa.

Carnations, Red Lawson, Mrs. W. T. Omwake.

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T. F. Matthews, Ashland St., cor. Mill,

Dorchester, Mass.

Carnation, White Lawson.

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E. H. Pye, Upper Nyack, N. Y.

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The H. Weber & Sons Co., Oakland, Md.

My Maryland and Jessica.

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Chicago Carnation Co., Joliet, Ill.

Rooted Cuttings.

For page see List of Advertisers.

CHRYSANTHEMUM STOCK PLANTS.

The E. G. Hill Co., Richmond, Ind.

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C. H. Totty, Madison, N. J.

In writing advertisers, mention Horticulture

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.

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CYCLAMEN PLANTS.

C. Winterich, Defiance, O.
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DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
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FERNS.

A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Sons, Whitman, Mass.

Nephrolepis Barrowsii.

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S. S. Skidelsky, 824 N. 24th St.,

Philadelphia.

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F. R. Pierson Co., Tarrytown-on-Hudson,

N. Y.

Nephrolepis Piersoni Elegantisima.

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FERTILIZERS.

Wm. Elliott & Sons, New York.

Clay's Fertilizer.

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FLORISTS' SUPPLIES.

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Boston.

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H. Bayersdorfer & Co., Philadelphia, Pa.

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The Kervan Co., 20 W. 27th St., N. Y.

Decorative Evergreens.

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N. F. McCarthy & Co., 84 Hawley St.,

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Reed & Keller, 122 W. 25th St., New York.

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J. B. Murdoch & Co., 545 Liberty St.

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S. S. Pennoek, Philadelphia.

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J. Stern & Co., 1928 Germantown Ave.,

Philadelphia.

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Boston.

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G. A. Sutherland Co., 34 Hawley St.,

Boston.

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FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.

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Fred C. Weber, 4326-28 Olive St.,

St. Louis, Mo.

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Young & Nugent, New York.

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J. Breitmeyer's Sons, Miami & Gratiot

Aves., Detroit, Mich.

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Thos. Young, Jr., 41 W. 28th St., New York.

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George H. Cooke, Washington, D. C.

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A. Gude & Bro., 1214 F St.,

Washington, D. C.

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Z. D. Blackstone,

14th and H Sts., Washington, D. C.

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Samuel Murray, 1017 Broadway,

Kansas City, Mo.

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FLOWER POTS.

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Washington, D. C.

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A. H. Hews & Co., Cambridge, Mass.

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FOLDING BOXES.

Welch Bros., 15 Province St., Boston.

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Wm. J. Boas & Co., Philadelphia, Pa.

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GALAX.

J. N. Pritchard, Elk Park, N. C.

GERANIUMS.

The E. G. Hill Co., Richmond, Ind.

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GLASS.

G. C. Watson, 1614 Ludlow St., Philadel-

phia.

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Sharp, Partridge & Co., 22nd and Union

Place, Chicago.

Is your name in
the above list? If
not, why not?

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
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Chicago House Wrecking Co., Chicago, Ill.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St.,
Chicago.

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Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
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Weathered Co., 46 and 48 Marion St., New
York.

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GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for
Florists.

Mineralized Rubber Co., New York.
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HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.

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The Kervan Co.,

20 W. 27th St., New York.

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Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dilger, Mgr.
Fancy Ferns.

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Crowl Fern Co., Millington, Mass.

HEATING APPARATUS.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.

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John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.

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Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.

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IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St.,
New York.

Plants tender or hardy.

R. M. Ward & Co., New York.
Plants and Bulbs.

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JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
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MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.
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MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
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NIKOTINE APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.
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NURSERY STOCK.

Mt. Hissarlik Nurseries,
New Rochelle, N. Y.

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Cottage Gardens, Queens, N. Y.

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Chas. Black, Hightstown, N. Y.
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ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.

Importers, Exporters, Growers, Hybridists.
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Wheeler & Co., 1250 Beacon St.,
Waban, Mass.

Julius Roehrs Co., Rutherford, N. J.
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PAEONIES.

Chicago Carnation Co., Joliet, Ill.
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PATENTS.

Siggers & Siggers, Washington, D. C.
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PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
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PLANTS, BEDDING.

J. C. Schmidt Co., Bristol, Pa.
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PLANTS DECORATIVE.

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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Boblink & Atkins, Rutherford, N. J.

PLANTS FORCING.

H. F. Michell Co., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston.
Spiraea Gladstone, Japonica, Lily of the
Valley.

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Joseph Breck & Sons, Boston.

Gladioli for Forcing.

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Boblink & Atkins, Rutherford, N. J.

PUBLICATIONS.

The Chrysanthemum, Saltford on the
Violet.

Horticulture Publishing Co., Boston.
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RETAIL FLORISTS.

Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.

Alex. McConnell, New York.
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Thomas Young, Jr., New York.
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Fred C. Weber, 4325 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.

For page see List of Advertisers.

Z. D. Blackstone, 14 & H Sts., Washing-
ton, D. C.

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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.

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RETAIL FLORISTS.—Continued.

A. Gude & Bro., 1214 F St.,
Washington, D. C.

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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.

C. H. Totty, Madison, N. J.

August Rolker & Sons, 31 Barclay St.,
New York.

English-Grown Roses.

Benj. Dorrance, Dorrance, Pa.
Killarney and Richmond.

E. H. Pye, Upper Nyack, N. Y.
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SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall Sq., Boston.

Cyclamen Seed.

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Thos. J. Grey & Co., 32 S. Market St.,
Boston.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.

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W. Atlee Burpee & Co., Philadelphia.
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Burnett Bros., 101 West St., New York
Seeds, Bulbs, and Fertilizers.

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J. M. Thorburn & Co.,
36 Cortlandt St., New York.

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Forest Nursery & Seed Co., McMinnville,
Tenn.

Forest Tree and Shrub Seeds.

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H. F. Michell Co., 1018 Market St.,
Philadelphia, Pa.

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G. C. Watson, 1614 Ludlow St., Philadel-
phia.

Sweet Pea Christmas

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Weeber & Don, 114 Chambers St., New
York.

Vegetable and Flower Seeds
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SEEDS.—Continued.

Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds.

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
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E. A. Beaven, Evergreen, Ala.

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STEAM TRAP.

E. Hippard, Youngstown, O.
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VENTILATING APPARATUS.

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1133 Broadway, New York.

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John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.

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The Chicago Lifter.

J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

VERBENAS.

H. F. Michell Co., Philadelphia, Pa.
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WHOLESALE FLORISTS.

Boston.

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ton.

George A. Sutherland Co., 34 Hawley St.,
Boston.

Welch Bros., 15 Province St., Boston.

Buffalo.

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Wm. F. Kasting, 383-37 Ellicott St., Buf-
falo, N. Y.

Chicago.

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J. A. Budlong, 37 Randolph St., Chicago.

E. H. Hunt, 76-78 Wabash Ave., Chicago.

Chas. W. McKellar, 51 Wabash Av., Chicago.

Peter Reinberg, 51 Wabash Av., Chicago.

A. L. Randall Co., 21 Randolph St., Chicago.

Welland & Risch, 59 Wabash Av., Chicago.

Wietor Bros., 51 Wabash Av., Chicago.

Vaughan & Sperry, 60 Wabash Av., Chicago.

E. F. Winterson Co., 45, 47, 49 Wabash
Av., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.

Wm. Murphy, 123 E. 3d St.

Detroit.

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Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Dilger, mgr.

New York.

A. L. Young & Co., 54 W. 23th St.,
New York.

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Bonnot Bros., 55-57 West 26th St., New
York.

J. S. Fenrich, 48 W. 30th St., New York.

Ford Bros., 48 West 23th St., New York.

H. E. Froment, 57 W. 28th St., New York.

Alex. J. Guttman, 43 West 25th St.

E. C. Horan, 55 West 23th St., New York.

Philip F. Kessler, 55 W. 26th St., New
York.

Julius Lang, 53 West 30th St., New York.

A. H. Langjahr, 55 W. 28th St., New York.

James McManus, 50 W. 30th St., New York.

Chas. Millang, 50 West 29th St., New York.

Frank Millang, 55-57 W. 26th St., New
York.

A. Moltz, 55-57 W. 26th St., New York.

John J. Perkins, 115 W. 30th St., New York.

John I. Raynor, 49 W. 28th St., New York.

George Saltford, 46 W. 29th St., New York.

W. F. Sheridan, 39 W. 28th St., New York.

Trandely & Schenck, 44 W. 25th St., New
York.

John Young, 51 W. 28th St., New York.

Philadelphia.

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W. J. Baker, 1432 So. Penn. Sq., Phila-
delphia, Pa.

W. E. McKissick, 1221 Filbert St., Phila-
delphia, Pa.

Leo Niessen Co., 1217 Arch St., Phila-
delphia, Pa.

S. S. Pennock, 1612-18 Ludlow St., Phila-
delphia, Pa.

Phila. Cut Flower Co., 1516-18 Sansom St.,
Philadelphia, Pa.

Pittsburg.

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Pittsburg Cut Flower Co. Ltd., 504
Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pitts-
burg.

Greenhouse Material

We are at all times ready to tell you about our greenhouse material.

If you contemplate building—write us of your needs and we will cheerfully talk the matter over.

Our wide experience may be of benefit to you—it may put dollars in your pocket book.

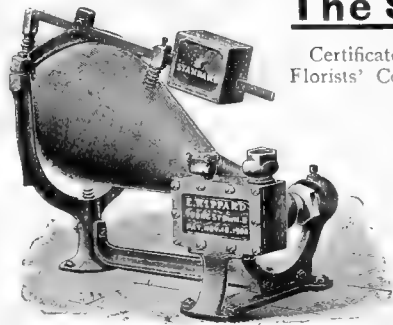
Sketches will be submitted if you are going to build—also estimates.

Write now while you think of it.

JOHN C. MONINGER CO.—Chicago

117 BLACKHAWK STREET

The Standard Steam Trap



Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

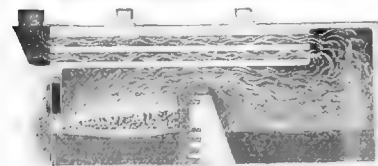
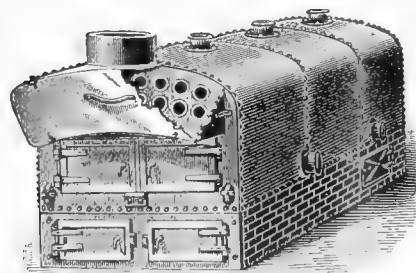
E. HIPPARD, Youngstown, Ohio

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

35 Erie Street, CHICAGO.



Boilers made of the best material; shell, firebox, sheets and heads of steel, water space all around front, sides and back. Write for information.

NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing advertisers, mention Horticulture

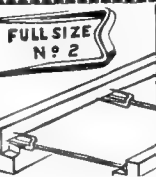
Holds Glass Firmly

See the Point of

PEERLESS

Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DREER,
714 Chestnut St., Phila., Pa.



New Offers in This Issue.

ASPARAGUS ROOTS.

W. F. Allen, Salisbury, Md.
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CANNAS, TUBEROUS ROOTED BEGONIAS.

A. T. Boddington, 342 W. 14th St., New York.
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CARNATION ARISTOCRAT AND GLENDALE.

Chicago Carnation Co., Joliet, Ill.
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CARNATION GLENDALE.

W. J. & M. S. Vesey, Ft. Wayne, Ind.
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CARNATIONS ROOTED CUTTINGS.

C. Warburton, Fall River, Mass.
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DAHLIAS.

David Herbert & Son, Ateo, N. J.
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DAHLIA ROOTS, ASPARAGUS P. NANUS.

S. S. Pennock, Philadelphia.
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EASTER BASKETS.

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ELECTRIC CIRCULATOR.

Holly-Castle Co., Boston.
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GREENHOUSE BOILERS.

Kroeschell Bros., 35 Erie St., Chicago.
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PALMS, KENTIA BELMOREANA.

R. & J. Farquhar & Co., Boston.
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TABLE FERNS.

J. H. Fiesser, 415 Summit Av., W. Hoboken, N. J.
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PEERLESS REPAIR CLAMP
GLASS REPAIR CLAMP



MADE OF ZINC

TO MEND CRACKED GLASS IMMEDIATELY AND PERMANENTLY
For sale by jobbers. Box of 150 for \$1.00 or address
A. KLOKNER, Wauwatosa, Wis.

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE, 111 FIFTH AVE

74 FRANKLIN ST. BOSTON

Erected for J. J. Brozat, Bloomfield, N. J.

If it's of
Iron - Frame
You want us



If it's of
Red Gulf
Cypress
You want us

25 feet wide. No Ugly Columns to Support House

ANYWAY YOU WANT OUR CATALOG

WEATHERED COMPANY 46 Marion Street
New York

POT MAKERS FOR 140 YEARS
A. H. HEWS & Co. Inc. CAMBRIDGE, MASS.
FLORIST WARE OF EVERY KIND

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish "PECKY CYPRESS"

Everything in PINE and HEMLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

FINE SILVER CUPS and TROPHIES

For Exhibition Awards, Sporting
Events, etc.

FINEST ASSORTMENT IN THE COUNTRY
FROM THE BEST MANUFACTURERS AND
AT LOWEST PRICES.

THORNTON BROS.,
LAWRENCE, MASS.

Greenhouse Material

Ask for our Special Catalogue No. 554 describing
Boiler Tubes, Boilers, Tubes, Gas, Lumber and Sup-
plies of every kind from the Fifty Million Dollar St.
Louis World's Fair.

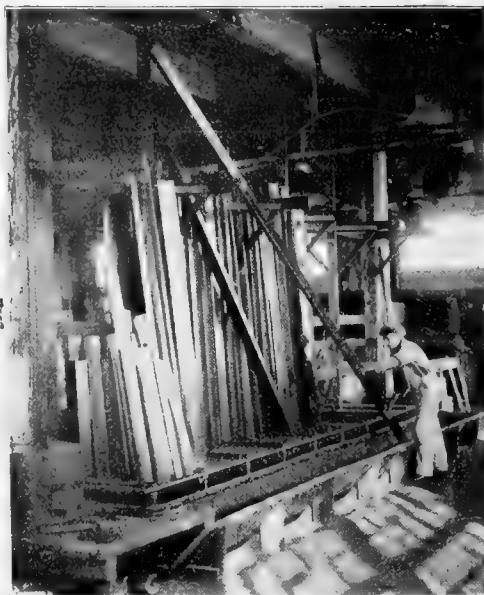
CHICAGO HOUSE WRECKING CO.
35th and Iron Sts, CHICAGO

SEND FOR
NEW GREEN HOUSE CATALOGUE
JUST ISSUED BY
King Construction Co.

North Tonawanda, N. Y. and Toronto, Ont.
In writing advertisers, mention Horticulture

SEND FOR CATALOGUE OF
SCOLLAY HOT WATER
and STEAM BOILERS
JOHN A. SCOLLAY

73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY



IT IS WELL TO KNOW ALL THE MINOR DETAILS OF THIS GREENHOUSE BUILDING MATTER

You receive the materials; your house is completed, satisfactory. You have a conviction that the thing is going to last. You liked the way everything went together perfectly, and no alterations to run up expense, but you did not stop to think what endless PARTICULARITIES at the factory such a result meant. Take as an example the matter of painting, you'll admit that a good prime coat is the basis of all lasting painting. You perhaps also know that cypress will absorb more oil than any other wood! Now if you just brush a coat on, the oil is at once absorbed, leaving the wood covered with a chalky, ready to rub off pigment,—the next coat only repeats the result. Take a good look at this illustration, see how we dip straight into a reservoir of paint EVERY PIECE, letting it SOAK UP the oil; each piece is then stood up to drip off (not brushed off). Another point to fix in your mind;—the ends—where the joints come,—are by this method just as thoroughly protected. Now after all this care, we give it a good coat of brushed on oil and lead.

(Next week another particularity.)

Send for Catalog J—G.

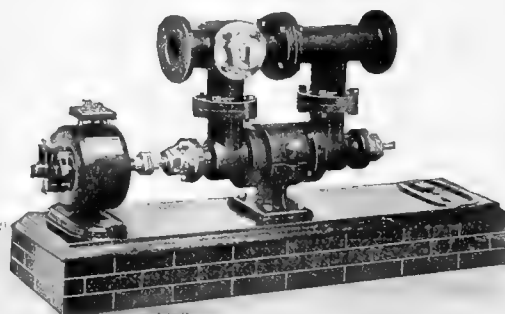
BURNHAM HITCHINGS PIERSON CO., Greenhouse Designers and Manufacturers

1133 Broadway, Cor, 26th St., New York

Boston Branch, 819 Tremont Building

YOU ARE INVITED!

The
HOLLY-CASTLE
Electric Circulator



The
Sensation of the
Season

The wide spread interest and curiosity concerning this remarkable appliance for comfort, convenience, certainty, and economy in greenhouse heating, leads us to extend an invitation to all attending the **Carnation Convention** at Boston to visit the Dickerman Greenhouses at Dorchester, Mass., where the apparatus has been installed and see a demonstration of its working. A special car will start from Horticultural Hall, Boston, at 1.30 p. m., on Thursday, January 25, the second day of the Carnation Convention.

HOLLY-CASTLE CO., Engineers, 49 Federal Street, Boston, Mass.

HORTICULTURE

Vol. III.

JANUARY 20, 1906

No. 3



A MODERN CARNATION HOUSE

(By Barnum Hichings, President C. O. G. A.)

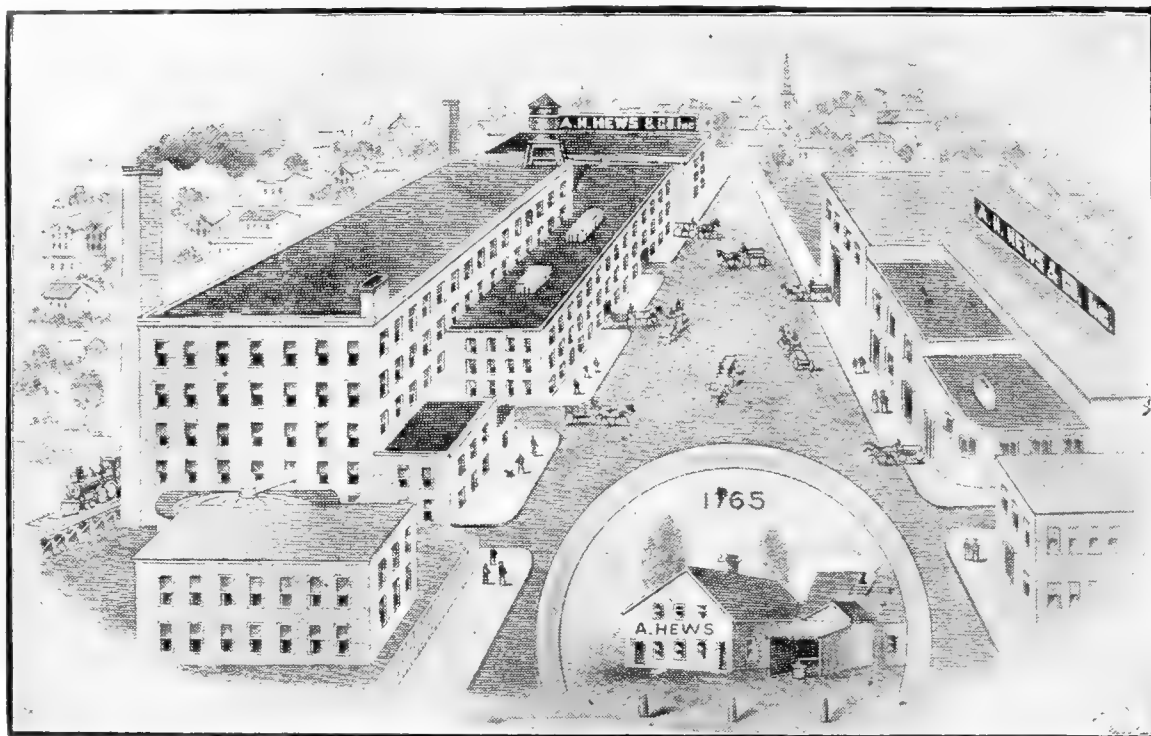
*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

1765.

HIGHEST AWARDS AT ST. LOUIS, 1904.

1906.



The above represents the largest factory of its kind in the world.

OUR PRODUCTION OF POTS EQUALS THE COMBINED OUTPUT OF ANY TWO SIMILAR ESTABLISHMENTS

Our equipment is the best that money and 140 years' experience can produce. We have spared neither time nor expense to make our factory the most modern and complete of its kind.

Our Annual Output of Pots Exceeds 16,000,000

We thank our friends and customers for their liberal patronage, and solicit the correspondence of prospective buyers.

We extend cordial invitations to all attending the Convention to visit our factory.

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Lady Bountiful	"	9	2-10	"	"	"	"	"	"	"

We shall keep open house as usual and "The latch string will be a 'hangin' out." Come and see Craig and some other good things which we have up our sleeve. The only place where the **genuine** Carnation Juice can be found.

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Cardinal	6 00....	50 00
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Enchantress....	2 50....	25 00
Queen	2 00....	15 00
Maceo.....	2 00....	15 00
Lawson	2 00....	15 00
Fair Maid	2 00....	15 00
Challenger	2 00....	15 00
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ENCHANTRESS	3 00	25 00
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SEE OUR NEW CARNATIONS AT THE CONVENTION

Winsor, White Enchantress, and Helen M. Gould

This is one way to judge carnations. A better and more convincing way is to see them growing. There is nothing about any of these varieties that we wish to conceal; therefore, we cordially invite all carnation growers to pay us a visit. Come at any time.

WINSOR.

This is sure to prove a winner. Nothing approaches it in color, which is a clear silvery pink—a shade between Enchantress and Mrs. Thos. W. Lawson—and much more beautiful than either. In fact, it is just the shade that we have all been trying to get. The color will make it sell in any market. The stem is just right. The flowers are considerably larger than Lawson and much better shaped. As a grower it has everything that can be desired. So far we have not seen any large-flowering variety quite so free as Winsor.

WHITE ENCHANTRESS.

This is a pure white sport of Enchantress, which is at once the most popular and most profitable carnation grown to-day; and this on account of its size and stem and freedom with which it blooms. White Enchantress is identical in every respect but color. Those who desire quality as well as quantity will find it in White Enchantress.

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We have fine stocks, from which we can deliver healthy cuttings of Variegated Lawson, White Lawson, Red Lawson, Enchantress, Mrs. M. A. Patten, Lady Bountiful, etc.

Our Variegated Lawson is all that we claimed for it last season, and is giving the fullest satisfaction everywhere—the best in the variegated class.

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MY MARYLAND

ANNOUNCEMENT TO THE TRADE:

We, the H. Weber & Sons Co. of Oakland, Md., respectfully announce that The E. G. Hill Co. of Richmond, Ind., have withdrawn from the contract made with us last Spring whereby they would have jointly with us, disseminated our new white carnation, My Maryland.

The variety has been sold at Richmond, (3,000 plants), Brooklyn, (300 plants), Philadelphia, (1000 plants) and Toronto, (1000 plants).

Reports from the first two named places characterize the variety as being practically worthless, while from Toronto and Philadelphia favorable reports indicate that the variety is bearing out our claims for it.

Our own stock at Oakland is in elegant shape. An ex-

remely wet Summer necessitated the holding of stock in a semi-dormant condition after being housed Aug. 15th to Sept. 1st, thus making stock too late for the Fall shows. Since Dec. 1st we have been cutting grand blooms, and to prove our claims for the variety we invite all interested to come to Oakland and look it over. While it is a source of regret to us that the variety has not proven satisfactory in all places tried, we are satisfied that it will prove our claims for it in at least some places besides our own.

We therefore announce that we will disseminate My Maryland as per our advertisements, but before shipping any stock we give to each and every one the right to cancel all or any portion of their orders.

JESSICA, we believe will succeed everywhere. It is even better than last year. As a red and white it has no competitor. Stock ready now. Price for both varieties \$2.50 per doz., \$12.00 per 100, \$100.00 per 1000.

THE H. WEBER & SONS CO., = = Oakland, Md.

"Aristocrat"

Announcement.

We herewith confirm the reports, so far as our purchasing the above carnation is concerned. We intend to disseminate same January 1st, 1907. We do not think it necessary at this time to commence boasting of its good qualities and commercial value that has been proven and will be proven again to your satisfaction.

We are now soliciting orders for January delivery and while we do not make a specialty of booking orders subject to cancellation we believe that to cancel is everyones right, if a variety does not live up to its reputation and we respect it if done right and honorably. Orders are already coming in heavily and we strongly advise you placing orders immediately as January bookings will soon be closed.

"Aristocrat" is O. K. and you will not be able to help yourself from buying it later, so place order now as we shall not over book ourselves on it, as we must make good and that is one of our reasons for securing it.

Color: brighter than Lawson, a little brighter shade. Calyx; does not burst. Habit of growth; taller than Enchantress, more wiry and more free. Produces cuttings freely which root easily. Has no disease of any description. Size, as large as Enchantress but form more perfect than any other carnation.

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Fair Maid	2.00	15.00	Glendale, new improved variegated..	12.00	100.00
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The new strain has proved to be very superior for florists' use. In habit it is similar to Blanche Ferry, the pink showing up brighter than in that old favorite. It is an early and continuous bloomer, coming into bloom in about ten weeks. When the bottom branches commence to flower, stems about fourteen inches long with four flowers on a spray are the rule. It is a dwarf grower, rarely reaching over five feet. Many of my customers have spoken highly of this strain, and I have pleasure in recommending it to all who grow sweet peas for the market.

	OZ.	LB.
Pink and White	\$.25	\$2.00
Pure White	.25	2.00

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SOLD BY SEED DEALERS OF AMERICA

Carnations Going to Sleep

Just now there is considerable complaint about carnations "going to sleep." Much has been written as to why cut carnations fail to keep as they should. The cause may have been discovered, but it is apparent that the remedy has not yet been applied.

I shall not touch upon any of the points heretofore mentioned which in every instance has dealt with the cultivation and handling of the flower before it has reached the market. In my opinion it is seldom that the grower is entirely to blame for their poor keeping qualities. As a rule it is not the cut of a particular grower that fails to keep, but when carnations want to sleep they simply sleep and don't care who grew them.

It is a well-known fact that when carnations will not last over night in a store the grower can keep those same flowers in good condition for a week or more. The carnation either cut or on the plant loves plenty of pure fresh air. This they get at the place where grown and therefore last much longer. In dark, rainy weather roses will not keep well, even though the weather was bright during the development of the bud; so are there certain atmospheric conditions which affect the carnation flower in like manner. In the impure air of a city store the effect is quick and more noticeable.

Having had considerable experience in this matter I

have found that by keeping carnations in a box outside the store they will last as long again as when kept inside. Not every store man has such a luxury as a back yard, but if he has not a rear window will answer nearly as well. Have a box built inside the window; if you need the light build it of glass. See that it is light and that the only air that gets in must come from the outside. Fasten a piece of cheese cloth at the opening to keep out the soot and dirt. You can regulate the temperature by raising or lowering the window, but do not shut off the entire supply of fresh air at any time. Try this plan with a few flowers in a simple way and you will be so pleased with the result that you will have built such a box as I have described. I do not say that this will prevent them from going to sleep in time but do claim that they will last twice as long as when kept in the usual manner.

The loss of stock is quite an item to the retail florist. It is a mistake to put everything on ice and you will find this box to be superior to a refrigerator for keeping many other flowers of which I may have more to say at another time.

Frank W. Ball

Propagating Roses

IN GENERAL AND AMERICAN BEAUTIES IN PARTICULAR.

By this time I am a little late with my notes on propagating roses, as it must have commenced before this and the propagating bench must be kept well filled for the next few weeks. Do not for a minute think that any old bench or out of the way corner will suit for a place in which to start young stock. A propagating house must be a nice, light, airy structure with plenty of heating and ventilation to which the good old saying, "Cleanliness is next to godliness" is essentially applicable. A raised bench with plenty of heating pipes under it to regulate the sand, and a heavy canvass to confine the heat under the bench, is all right. After giving the board on inside of bench a good coat of whitewash consisting of hot lime and about two handfuls of Portland cement to the pailful, we are ready for the sand. Some people have a slate bottomed bench, some a concrete and others use different material. I prefer a wood bench with two inches of rough gravel or crushed stone on the bottom, and four inches of good sharp bank sand on top of that, well watered and pounded down.

In propagating American Beauties two-eyed cuttings of good flowering wood or three-eyed of harder and more ripened wood are just right to make a good plant. Too soft or pithy wood will not root well but turn

black in the sand and if they do root they will produce what we call "black legs," and not good plants.

Temperature for sand should not vary more than two degrees and should be kept as near sixty-two as possible and with an outside or house temperature of fifty-six to fifty-eight degrees about ninety-five per cent. of them should root in from twenty-five to twenty-eight days. The cuttings should always be shaded should the sun shine on them, but if the sun's rays do not come in contact with them shading can be dispensed with entirely.

Watering cuttings is a very particular job and should be looked after with the utmost vigilance. They must not be permitted at any time to suffer for want of water. When watering do it thoroughly and as they begin to callous, which will be in about ten days after benching, you can withhold the water a little, but on no account let the sand get dry at the bottom, for should this happen your cuttings will have gone up and you will have labored in vain.

After twenty-six days of good treatment the cuttings should have made roots about half to one inch long, and then is the time to get them into pots, for the roots grow very quickly in the sand after this and soon become black and brittle and it takes more care to get them all into a two inch pot without breaking some of

them off. So pot up as soon as ready and pot firm. Don't thumb pots around the soil at the top, but get the two thumbs and two first fingers well down in the pot alongside of the cutting and with this and a pressure of the soil in the bottom of the pot you will not need to thumb the top soil at all, as that part will settle down soon enough with the watering. Give them a good watering, using a nose on the hose or watering can and shade from the direct sun for three or four days and with a light syringing overhead they will not need any more water until the roots reach the side of the pot, which will be in about four days. After that judgment can be used in watering, for some parts of the house will dry out before others. After three or four days you can get them used to full sunlight, shading only at noon for an hour or so when the sun is highest, but if "old Sol" is not in evidence any more than we here have seen him during the last month you will not need to let the shading question trouble you a bit.

At this time of the year and especially after the holidays, the plants will be pretty well cut down, and now is a good time to give them a partial rest by running the houses a little cooler, say two or three degrees, and withholding the water and feed and keeping a little on the dry side but not dry enough to check them too much, though. Don't overdo it. This will instill new life into the plants for the next half of the year.

Hoping all the readers of HORTICULTURE have had a very good holiday season's trade and with a prosperous year for 1906 before them.

Wm Scott

Echoes from England

THE EVENTS OF 1906.

The Royal Horticultural Society has arranged a comprehensive programme for the year 1906 and several new features are included. There will be no less than thirty-five exhibitions and meetings. Most of these will be the usual fortnightly shows which are held in the Royal Horticultural Hall in London. In addition to these there are many special shows, each extending over two or more days. We usually have several American horticulturists over in this country in the course of the year and the dates of some of the most important horticultural events of 1906 and a few particulars of them may be of interest.

On February 13 the annual general meeting, the scene of many heated debates in past years, will be held. There is no unusually important issue before the Fellows this year, so that in all probability it will pass off quietly. The society now has a hall and a garden of its own. The former is said to be almost paid for, while the latter was a gift from Sir Thomas Hanbury. On March 22, 23, 24 there will be an exhibition

of colonial grown fruit in the society's hall. There have been several similar ones recently, and although the colonial apples undoubtedly have the best of it, so far as appearance goes, the home grown ones have invariably been the favorites for eating. On April 17, in addition to the ordinary exhibition and meeting, the annual show of the Auricula and Primula Society will be held.

The great Temple show of the Royal Horticultural Society will be held in the Inner Temple Gardens by the side of the river Thames on May 29, 30 and 31. This is the finest flower show in the United Kingdom and the one above all that should be seen by visitors from abroad. On June 6 and 7 there is to be another exhibition of colonial grown fruit, while on June 20 there will be something quite novel, namely an exhibition of table decorations. This will be the first show of its kind ever held in England so far as I am aware, and will doubtless attract a good deal of competition and prove a great success. It can hardly fail to make a very beautiful display.

The National Sweet Pea Society will hold their annual exhibition on July 5. This is always an attractive show, although perhaps somewhat monotonous. Still it enables one to see all the best varieties of the sweet pea together and also to see all the new sorts, so its monotony may be forgiven on account of its usefulness. The Royal Horticultural Society's summer show, lasting two days, will be held on July 10 and 11. On July 24 there is the Carnation and Picotee Society's show.

An international conference on plant breeding will be held from July 30 until August 2, both dates inclusive. This promises to be an event of much significance. The National Rose Society will hold their autumn show on September 19. A show of British-grown fruit will be held on October 16 and 17, and an exhibition of colonial-grown fruit and home grown preserved fruit is to be held on December 4 and 5. The National Potato Society will hold its annual exhibition on December 13 and 14.

The National Rose Society will hold their summer show in the Botanic Gardens, Regent's Park, London, on July 5. These gardens form an ideal spot for the purpose and the show held there in 1905 was a magnificent success. Her Majesty the Queen and many other distinguished people were present. The National Dahlia Society's show takes place on September 6 and 7.

The famous Shrewsbury Floral Fete will be on August 22 and 23 this year and the great Edinburgh Flower Show is to be on September 12 and 13. That of Glasgow is on September 5 and 6, and the York Gala on June 20, 21 and 22.

These are the dates of the most important horticultural events for 1906.

Harry H. Thomas

London, W. C.



CATTLEYA LANCASTRIENSE.

LAELIO-CATTLEYA EROTION.

This cattleya cross was made between *C. labiata* and *C. velutina*, and with the following *L. C. Erotion* is believed to be here published for the first time, both being raised from seed and flowers here. In the raising of orchids, as with other plants, from seeds, if the operator only knew what to avoid, many years of watchful care and labor might be saved and posterity be benefited, and while *C. Lancastriense* is not one of the best ever, it is certainly worth growing, because there is great variation in individuals, one other from this pod of seed being of exceeding beauty, the one here illustrated, however, being the first to bloom a year ago, and hence the type plant.

The color in the sepals and petals is a peculiar fawn color, a mixture of yellow and pink that varies with the maturity of the flower, but the prettily veined lip is derived from *C. labiata* parent, and is at once its salvation. *Cattleya velutina* is very fragrant and this is as a rule transmitted to its offspring.

A very pretty bigeneric hybrid, the parents of which are the dwarf growing *Cattleya Walkeriana* crossed with *Laelia glauca*, the latter parent up to recently being known as *Brassavola glauca*—and this gives the beautiful large lip seen in the plant here illustrated, which, by the way, was the only one raised from the pod of seed saved and sown.

The color is a beautiful shade of rose uniform throughout the flower, the veining of the lip being especially pleasing. The scape bore but one flower, and it is probable that it will rarely if ever produce more than this, owing to its parentage. The flower has the additional merit of fragrance and lasts a long time in perfection. The seed was sown in 1898.

E. O. Orpet.

Masdevallias

The culture of these brilliant and curious orchids is interesting and should commend itself to all plant lovers. In no other genus do we find such brilliant colors, and in few such quaint forms. The genus *Masdevallia* is somewhat polymorphic and many of the species are more curious than beautiful. The bright colored species *coccinea* and its many varieties, many of which are known as varieties of *Harryana*, *Veitchiana*, *igneae*, *roseae* and others in the same section and the pure white *tovarensis* are worthy of more extensive cultivation. Their culture is not so difficult as is generally supposed. The high temperature in summer is somewhat distressing to them, especially if, as is generally the case, they are just pushing up new growths when hot weather comes. This young, tender shoot or leaf cannot live through the hot, humid July days, and generally dies back to the poor little immature bud at its base and at the apex of the rhizome, which bud cannot be so strong or able to produce so good a growth as it would if its predecessor had matured.

The object of the cultivator, then, should be to have the growths fairly well established before hot weather commences. By giving the plants more sunlight and warmer treatment in winter the second leaf of the season will be fairly well developed before midsummer.

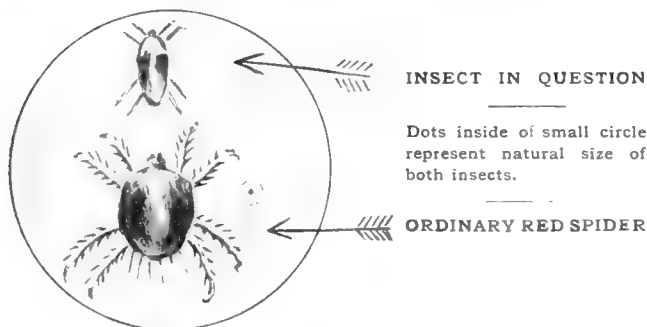
This the writer has found to be beneficial and effectual except in the case of a few plants which were perhaps kept a little too dry in winter, thus retarding the first growth.

The English method of keeping the plants cool and dry in winter, perhaps necessary in the dull days of winter in England, is quite unnecessary and harmful here. A fairly light house, full sunshine in midwinter, a moist atmosphere, consistent with proper ventilation and a minimum temperature of 50 degrees F. are ideal winter conditions.

In summer the cool odontoglossum house is the place for them, but anything approaching a close atmosphere should be avoided. Some growers advocate closing the cool orchid house entirely during the warmest hours of the day in summer, ventilating during the night, thus keeping out the heat. The atmosphere in the house at this time is too inactive and cellarlike. A free circulation of air around the plants is of more importance than a few degrees of temperature.

James Hutchinson

A Troublesome Insect



Herewith is a sketch of two very troublesome insects as seen under the microscope together. The large hairy-legged fellow is the common red spider with which every gardener and florist is well acquainted. The small insect above it is evidently a member of the same family; can be just as harmful and being much smaller is not so easily detected. In a young state they are almost transparent and colorless, but larger specimens become a bright red and when full grown are of a reddish-brown tint over the broadest part of the body; front and back being transparent or nearly colorless. With the microscope I used I could not detect any hairs on the legs, as on the common red spider. A better instrument might disclose some.

The insects are mostly found on orchids of all descriptions, especially on *bletias*, *calanthes*, *stanhopeas*, *brassias*, *phalænopsis*, *oncidiums*, etc. Outside of the orchid family I have found them only on azaleas, but they may infest other plants for all I know. Certain it is they can do a lot of harm before one suspects their presence and even after one sees the plants damaged, he might not know the cause for the little rascals are so infinitely small as to require a powerful lens to see them. On one occasion only did I detect them with the naked eye; it was on a white flower of a *calanthe*.

The damage done by these insects varies on different species of plants. On azaleas the work shows like that of thrips, on *stanhopeas* and some *oncidiums* (*O. luridum*) like that of red spider. On *bletias*, *calanthes*, *phajus*, *peristerias* and like plants, the leaves will at first show a lot of small, watery-looking spots which ultimately turn black. On some *epidendrums* and *brassias* the leaves show at first the usual grayish discoloring caused by red spider on other plants, but in time the leaves will be covered with black spots. On *phalænopsis* the leaves show at first small watery spots, which gradually grow larger, swell up like a blister and take on a yellow or sometimes purplish color until they finally seem to collapse and dry up, leaving deep depressions on both sides of the infested leaf and in some cases even on the flowerstalk.

For a long time I was at a loss to account for those spots on the *phalænopsis* leaf. I attributed the trouble to thrips at first but search as I may I could not find one single thrips on any plant. A cold chill might do the harm, but then all plants ought to have been affected, anyway I tried to prove this latter theory, but failed to cause any leaf to get spotted by giving the plant a chill. Now I know it is these little spiders who do the harm for I have found them on the leaves after a long and careful search.

It is a hard insect to get rid of. Tobacco smoke, fumes of Nicotine or Nicotidine have no effect on it. Sponging with warm water and Ivory soap is probably the only way to keep them down, outside of hydrocyanic gas. I am going to try this on them and hope to get

rid of all other vermin at the same time—perhaps of a good many plants, too. Should any of your readers be better acquainted with this little job I should like to hear about it.

M. J. Pope

Grape Vines Under Glass

From now on grape vines will require all the attention they can possibly receive. After the vines are pruned, if mealy bug is at all bothersome, all the loose bark should be scraped off, using the finger nails and a dull knife for the purpose, and the vines then washed with soap and water, using a brush with vehemence on all parts, but being careful not to injure the eyes of the vines in the operation. At this stage the vines may be left alone until the house has been thoroughly cleaned and painted. In washing the woodwork of the grapery before painting put a little kerosene in the soapy water and see that some of it gets into every nook and corner in order that resting mealy bugs may be rudely disturbed in their retreat. When the house is clean give one or more coats of paint to all the wood work. White paint is the best kind for the wood as a preservative and white is the best color from a horticultural point of view. Before an attempt is made to start the vines into growth the border inside the house will require to be gone over carefully and all the surface soil removed. As this has to be done without injury to the roots the work can be better accomplished if a wooden peg is used to loosen the soil for no matter how carefully a man may handle an iron digging fork, there is a liability to injure the roots more or less. Provision should have been made before now to have the soil and manure for replenishing the border under cover that it may be available and in good condition for use when required. The safest material to use right over the roots of grape vines is pure fibrous turf and then over that some of the same material chopped with a spade and mixed with broken bone or bone meal and cow manure; by some it is considered well to have the cow manure near the surface for several reasons.

If the border is all ready it will be well to paint the vines with a thick solution composed of one pound of whale oil soap, one small wine glass of kerosene, a quarter pound of hellebore powder, to about a gallon of water. This solution is thickened by adding enough yellow clay and cow manure in equal proportions to get it the thickness required; it ought to be just thick enough that a thin coat will remain on the vines.

It is generally recognized that it is better not to water the vines at the roots until the border has been warmed somewhat by a slightly higher temperature, but when water is given it should be given in such a quantity that it will reach all the roots and be evenly distributed over the border. No harm can, and, possibly, some benefit may ensue if the vines are tied down so that their tips will not be more than three feet higher than the border. This may help to cause the vines to break more evenly. In the frequent syringing necessary at this stage it will be well to use as fine a spray as possible in order to avoid saturating the soil with water. A temperature of 45 to 48 degrees is high enough to start with when fire heat is used.

David McIntosh

The Bertrand Grape



The accompanying photograph is of a cluster of the Bertrand grape that originated in middle Georgia and is supposed to be a seedling of the Herbemont, a grape that it very much resembles in quality and the immensely-shouldered clusters. The history of the Herbemont, though somewhat in doubt, is very interesting. Prof. T. V. Munson classifies it as *Vitis Bourquinina* and says of it: "It was brought to Savannah, Ga., (I am credibly informed) by a Huguenot family by the name of Bourquin from Southern France over one hundred and fifty years ago; the vines sent me by Gougie Bourquin of Savannah are direct descendants of the original vine in the Bourquin gardens and prove beyond question in several years fruiting on my grounds that they are identical with the Herbemont. On the other hand the Bushberg Grape Manual says of it, "Origin unknown; as early as 1798 it was propagated from an old vine growing on the plantation of Judge Herger, Columbia, S. C. Nicholas Herbemont, an enterprising and enthusiastic cultivator of the grape, found it there and from its vigorous growth and perfect acclimation, at first correctly supposed it to be a native. He afterwards, in 1834, was told that it had been received from France and believed this, but the same grape was also found growing wild in Warren County, Ga., and is there known as the Warren grape."

The best authorities class it as a member of the southern *Aestivalis* family, a native grape, truly called by Downing "Bags of Vine," one of the very best and most reliable grapes for both table and wine. Judging from its many foreign characteristics, the numerous branches of its clusters, small seeds, and vigorous growth, I am inclined to side with Munson in regard to its origin. It would seem to be very easy for it, by the aid of birds, to become scattered and be found wild in such a place as Georgia. The writer is especially

interested in this grape, as a basis for experimental work, and the cluster from which the photograph was taken was thoroughly pollinated from a grape that produces clusters fifteen inches long. The original of the photograph was 15 1-2 inches in circumference and had 291 berries on it. Such a combination should, to say the least, produce some magnificent clusters, and ripen in New England. The combination is composed of six different species, viz., *Vitis Bourquinina*, *Labrusca, vulpina*, *Lincicumii*, *rupestris*, and *vinifera*—five of our best native species and one foreign—just foreign blood enough to give quality without injuring the hardiness of the offspring.

R. B. White

Browallia speciosa major

This is an exceedingly effective and cheerful winter-flowering subject; for that matter it is in flower all the time, but its large violet-blue flowers are more conspicuous in the dull winter months, on account of the dearth of rival subjects in that color at that period.

The requirements of this plant are very simple and any ordinary treatment will suffice to attain good results. It succeeds best in a greenhouse temperature ranging from 50 to 55 degrees. Best results are obtained by growing it annually from seeds, sown somewhat early,—say in February. The same routine business that ensures success in handling other similar subjects applies to the one under notice; namely, timely transplanting with the necessary timely repotting.

It varies greatly from seed in habit of growth and size and intensity of color in flower. It would be therefore labor well-spent on the part of those that grow this lovely plant, to be on the *qui vive* for improvements along the line, and whenever such are detected to perseveringly and intelligently bend their efforts to further improvements. This can only be accomplished by following well recognized rules, one of these, if the improvement is carried forward through the medium of seed-selection, being that the plant or plants to bear the same, must be isolated sufficiently early to preclude the possible tampering of inferior varieties with the better variety. This line of work must be scrupulously followed for a number of years to arrive at a stage where a likely reasonable measure of success is to award the effort.

I said that best results are to be obtained from plants raised annually from seeds; that plants can be easily raised from cuttings I am well aware, but I have found the latter invariably to assume a more woody and wiry nature, resulting in smaller and less brilliant flowers. However, I have seen good returns from one-year-old plants severely cut back and planted out in early summer, thereafter lifted in the usual way in the fall, big plants being the reward of such treatment.

I would add that to obtain shapely, bushy plants, frequent pinchings of the young growths must be attended to in their earlier stages. I would also consider this subject to be essentially a day and home decorative plant. Day—as its color does not shine out under artificial light, appearing mauve or lilac; home—as it does not take kindly to rough transportation handling.

H. Finlayson

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

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WM. J. STEWART, *Editor and Manager.*

Sports versus seedlings

It has been suggested, in view of the increasing frequency of "sports" among carnations, that thrifty growers may yet find it expedient to confine their list of varieties under cultivation to the sports of such sorts as have proven valuable under their especial conditions of soil, atmosphere and treatment. Such a course would certainly reduce the element of doubt and speculation to a minimum but would hardly compensate for the sacrifice of the delight of testing new things.

Burbank and his critics

Within the last few weeks there have come to us a number of communications, a few fulsomely laudatory, but most of them attacking severely the alleged accomplishments and claims of Luther Burbank, for which we have found no room in our columns. To the best of our knowledge HORTICULTURE was the first paper to turn the light on some of the absurdities of the Burbank pedantry and we do not feel called upon to vociferate in the chorus of criticism now in progress. The lesson impressed upon us is that no man, however clever can afford to override and trifle with the good opinion of his fellow craftsmen. It seems inexplicable that Mr. Burbank did not foresee that, while the public might be Barnumized to the limit, those in his own profession at home and abroad would sooner or later record their disapproval. One ringing, straightforward disclaimer of responsibility for the silly exaggeration, from him, might easily have turned the tide, but it was not forthcoming.

Knowing why and wherefore

We had the pleasure recently of a trip through the carnation houses of the Cottage Gardens Company under escort of Mr. Ward. It was an experience full of absorbing interest, not alone because the stock was in superb shape, but particularly because of Mr. Ward's pertinent observations on each variety, its history, parentage and promise: the reasons for

this or that conformation or habit, the influences traceable back through its lineage—all calculated to stir one up to a keen appreciation of the deeper phases of carnation crossing and culture. It is a good sign of any industry when its followers show a disposition to investigate systematically and carefully classify and record results and are able to demonstrate in a lucid manner how these results have come about. Only in proportion as we acquire ability to discriminate between the crude and often erroneous conclusions thrown out by haphazard experimenters and the mature results of careful investigation made in special lines by expert and studious men, can we expect substantial advancement in any art.

Poinsettias after cutting

Commenting on a recent communication in HORTICULTURE on the best method of handling poinsettias so that they will keep well after being cut, A. H. Lange of Worcester, Mass., states that he finds the best plan is to cut the heads with stems two feet or more in length and to plunge them in hot water immediately, to a depth of fully 18 inches. The water can be as hot as 90 degrees and its effect is to dissolve the gum as fast as it exudes from the stem, so that by the time the water has cooled off the stems are entirely freed from the gum. On the following morning the stems are put in ordinary hydrant water in a cool cellar or other place where flowers are usually kept and after 24 hours more they will be in condition to stand up well in any decorative work for which they may be required. Mr. Lange says further that it is his custom to attach a tag to all growing poinsettias in pots or pans before delivery to customer, on which the buyer is instructed to keep the plant in a warm place and give it an abundance of water.

Increase the duty on nursery stock

How does the present tariff on ornamental nursery stock affect the welfare of the American nursery and florist trade? It is the expressed belief of many who are well-situated to form a valid opinion that the duty on these goods imported from abroad is much too low, and the American Rose Society has so expressed itself as to the tariff on roses especially. Not only are the foreign roses sold at prices which American growers are unable to meet, but a large proportion of them are so lacking in hardiness and other essentials that their dissemination is a continual menace to the growth of garden-love, buyers in their ignorance of the reasons for failure being discouraged by their lack of success from further attempt at horticulture. It is maintained that the imposition of a heavy specific duty would tend to the exclusion of undesirable, low grade material and place the cost of well-grown imported stock at a level which would protect the American grower and open a home market for his products at an adequate price. It is well known that Germany is about to impose practically prohibitive duties on this class of goods and it is a foregone conclusion that the material thus repulsed will seek outlet here. As Germany buys annually many times as much as America has been buying the eventual effect on the American nursery business is not hard to foresee. The issue calls for vigorous action on the part of the nursery trade of this country.

AFTER ADJOURNMENT.

Guttman & Weber report advance orders for their scarlet carnation Victory, aggregating 200,000 up to date, a sterling tribute to the flower itself and the enterprising manner in which its merits have been given publicity.

Fresh magnolia branches with rich glossy foliage are among the nicest things in the green line carried in stock by the Kervan Company, New York. For decorative effect, in artistic hands, they have no superior.

Double flowering peach, white and pink, apple blossoms and lilacs are among the most attractive novelties seen in the windows of New York florists. These things make a window display which demands notice from the passer-by.

The New Jersey State Horticultural Society has again voted, at its 31st annual meeting, to advocate legislation permitting the destruction of the robin by the fruit growers. A much more general approval is likely to be given their vote in favor of a parcels post and for the discontinuance of discrimination in freight rates against eastern fruit growers. Bird destruction is not popular now-a-days.

On account of the high commercial tax now imposed upon all traveling salesmen entering Canada, large American houses are withdrawing their representatives from that territory, as the prices charged for goods cannot cover this additional cost. Canadian buyers will find our advertising columns especially useful under these circumstances and, ordering by mail from the advertisers found therein, can depend upon careful consideration of all business so transmitted.

The Rural New Yorker is doing some telling work in agitating the parcels post matter and the communications from some of its readers indicate that gratifying progress is being made in awakening public sentiment in favor of this much-needed reform. One writer in the issue of Jan. 13 shows how for the sum of ten or twelve cents packages of considerable size may be sent by parcels post from London to Jerusalem! Jerusalem, with all her misfortunes, has evidently thus far eluded the express monopoly. Americans have yet something to learn from old world ways.

We notice that the esteemed "correspondent of a western paper" has transferred his masterly handling of the S. A. F. and its "proposed exhibition," the "censorious editor" and the "Boston people," to the roomy columns of an eastern contemporary. Would briefly say, with all due respect to our friend Craig's contrary opinion, that we still think we are fairly familiar with Boston sentiment and able to speak for Boston as a Boston man, even though we were deprived of the liberal education in this respect provided for those who were present at the momentous Gardeners' and Florists' Club meeting in ques-

tion. Perhaps Mr. Craig will be willing to give us a chip from the store of knowledge emitted on that occasion and tell us who it was that flung the bugaboo into the meeting, and what the motive behind this attempt to lure a fair-minded, honorable body such as the Gardeners' and Florists' Club of Boston into the discourtesy of a premature discussion and recorded condemnation of the alleged plans of a friendly society before any communication had been transmitted by that organization or any official public announcement made.

"May go out for wool and come home shorn themselves."

According to The New York Tribune, Bronx Park has a "plant hospital." The "plant doctor," a Mr. E. A. Costain, it appears, entertained The Tribune reporter with a full column dissertation on plant life, plant diseases and plant medicines, as he followed him on his rounds among his "patients." We read that:

"Among the patients treated were the feather palm, parosol, bamboo, Bungalow, blooming cane broom, fern, jaguar, royal, fan, umbrella and Bourbon. Some of these palms were drooping and fainting like the sick after a long, hard night of nerve racking pain. The Bourbon was in a state of complete nervous prostration; the feather looked rheumatic, its offshoots curled up and knotted; the fan had some pulmonary trouble, and many of the others were victims of indigestion, being unable to relish their food. A warm bath, a sponging with oil, doses of plant medicine, changing of position and a loosening of the earth around made them more comfortable. In a short time it needed no imagination to see that they felt much better and were on the road to recovery."

The "doctor's" plants may be sickly, but there is evidently nothing the matter with the digestive apparatus of The Tribune's readers.

The old epidemic has apparently struck in on The New York Sun, also. Its representative has had an encounter with a "Broadway florist." According to the interview, which occupies a full column, for which any legitimate enterprise would have to pay dearly, we learn that:

"Carnation Aristocrat was sold by a Cincinnati firm to the Carnation Association of Joliet, Ill., recently, but the association will have no trouble in getting its money back.

"It will get it back in one season. You see, they will sell the first shoots for \$5 apiece. They'll have about a thousand of them. Then the shoots will be doubled and tripled and quadrupled and they'll sell them all for \$5 apiece.

"It is unusual to grow anything very wonderful in the way of a carnation in this country. That was probably what raised the price of the Aristocrat. Carnations grow much better in England.

"There seems to be a fad for rare carnations among many rich people. I have known people to pay fabulous prices for rare carnations and never let them go out of their greenhouses except for presents to their friends.

"But as to the way flowers take to different countries. There is the American Beauty rose. They can't grow that in England at all. It refuses to take root. They have tried it again and again and failed. Yes, I suppose that is the reason they are called American Beauty roses. It suits them best to grow here.

"That amaryllis you see in the window, grows best on the Pacific coast. That one didn't, of course. It was grown in a greenhouse. Yes, it is beautiful. It is almost impossible to believe it could be more beautiful unless you saw it trailing along on its native heath. It is a thing to look at there."

A town that can stand for that will stand for anything, even tin horns and rattles on New Year's eve!

OUT OF THE BEAN POD.

So much hot air has been used in Boston's recent political battles that it may have had a tendency to keep away the cold weather and give the florists a chance to keep down the coal account, but things have gone down to their normal point and the spring-like weather cannot last much longer.

The coming of the Carnation Society to Boston excites much interest amongst the craft here, and the good fellowship for which Boston is noted will be freely extended. But President Fisher should have put the executive committee wise in the selection of the date, for on the 25th of January the weather man usually hands out one of his best samples of winter, but the president may get on the right side of that gentleman and prevail on him to give us a moderate dose. Possibly he had in mind that this will be the day so dear to all Scotchmen, the anniversary of the birth of "Robbie" and I shouldn't be surprised if he had tickets bought in advance to give his co-workers a chance to worship at the shrine of the illustrious bard.

Be that as it may, let us all welcome the coming of the American Carnation Society and we all hope that the weather will be such that the public will be given a chance to see the exhibition. At the same time it may not be out of place to add that none of us has any patent rights in the growing of our specialties. No society or member of a society can afford to be arrogant or try as individuals to bring about antagonisms between different societies. Most of us gain our daily bread from a specialty and are trying to work out plans which will bring that specialty to a higher plane. In some lines results are more quickly achieved than others, but let none of us in the flush of victory think that others are less industrious than ourselves. The path in some lines has been very difficult to climb but there have been brave-hearted men who have given their time and money freely to overcome obstacles that have seemed insurmountable. The late Edmund M. Wood was one of these men, and in him Boston and the entire country lost a man who did much for the particular industry for which he had a great love. Were he alive today both the American Carnation Society and the American Rose Society would have had a warm welcome from a friend of both.

ROBT. T. MCGORUM.

HORTICULTURE A BUSINESS GETTER.

Under the remark, "You see HORTICULTURE reaches beyond the United States," an advertiser sends us an inquiry received from England. This is suggestive to those who are looking for a wider market for their products.

PERSONAL.

Frank L. Sterling, nurseryman, was married on New Year's day to Mrs. Martha McLain.

Thos. H. Meade severed his connection as travelling man with Jos. Breck & Sons' Corporation January 1.

NEWS OF THE CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The first meeting of the new year was held on Tuesday evening, January 16, with an attendance of over one hundred members. President Wheeler made a brief address of congratulation on the prosperity attained, and gratitude for the support accorded him during the past year. He emphasized the importance of individual activity as compared with the value of mere numerical strength, advocated the encouragement of the recreation features of the club's work, referred briefly to the preparations which are perfected for the coming carnation convention and set a shining example for his fellow-presidents all over the country by thanking in appreciative words the representatives of the professional papers for their share in promoting the welfare of the organization.

Vice-president Westwood, Secretary Craig and Treasurer Hatch also responded to the call and spoke a few words. Mr. Craig advocated the establishment of some system whereby positions might be found for worthy members out of work and deprecated the insidious encroachment of the landscape architects on the gardeners' domain. Mr. Hatch's dissertation on thriftiness was pointed and impressive.

Mr. A. Patten gave an interesting resume of the carnations of the past and was followed by Peter Fisher, who presented the interesting paper on the carnation of the future, which appears on another page of this issue. In the discussion which followed Mr. Fisher told of investigations he is making on the subject of cross-relationship and intermingling of blood in carnation raising and its effect in the tendency of certain varieties to sport. This subject brought out interesting remarks from a number of members. Mr. Fisher also told of the apparent effect of fumigation in causing carnation flowers to go to sleep in a short time after cutting, and said he had found the use of Nicotine a great improvement, the flowers keeping much longer. He advised growers to try Nicotine. A general exhibition committee was appointed with Alexander Montgomery, Peter Fisher and Robert Cameron chairmen of the rose, carnation and general plant sections, respectively. The project to refer applications for membership to the executive committee before action by the meeting was voted down. Sixteen new members were elected. The application of a lady for membership brought out a spirited debate and a negative vote, which was afterwards reversed, but the sponsors for the lady withdrew the name. Altogether it can be said that gallantry was not rampant on this occasion. An invitation to attend the banquet of the North Shore Horticultural Society at Manchester on February 15 was presented by W. B. Jackson and accepted.

On the exhibition table were some

fine carnation displays, including Evangeline (light pink) and Beacon (red) from Peter Fisher, a white seedling from T. F. Matthews, Helen Goddard from S. J. Goddard, sport from Enchantress and several seedlings from Backer & Co., seedlings from Stevens & Co., Pink Patten and Mikado from Patten & Co.

PHILADELPHIA COUNTY FARMERS' INSTITUTE.

Unlike the regular farmers' institute in the country districts the Philadelphia affair generally has an element of horticulture and floriculture injected into it. This year's meeting, held at Horticultural Hall on the 16th inst., was no exception to the rule. Antoine Wintzer, of the Conard and Jones Co., gave a very interesting talk on hybridizing, Dr. Roberts delivered his much-looked-forward-to lecture on the influence of flowers in the sick room, and J. Otto Thilow spoke on grasses for lawns and other purposes. These lectures were in addition to the regular lecturers of the Department of Agriculture.

Carnation Robert Craig was on exhibition from the Cottage Gardens, besides Begonia Lorraine and a number of other items for the monthly prizes of the society. Henry A. Dreer made an elaborate exhibit of insecticides and tools.

The most interesting of the papers have been secured and will be published as soon as circumstances will permit. Altogether this proved a very successful institute. Edwin Lonsdale presided, ably seconded by David Rust, secretary of the Horticultural Society.

AMERICAN CARNATION SOCIETY.

Carnation Registered.—By George B. Anderson, Hyde Park, Mass. "Red Warrior," a bright scarlet, very free bloomer, strong grower, average stem at this time eighteen inches, blooms three to three and one-half inches. A cross between Mrs. Lawson and Mrs. Bradt.

The Boston Meeting.

The paper on Carnations from a Wholesaler's Point of View will be given us by Mr. A. J. Guttman, New York, N. Y.

The New England Passenger Association have granted the rate of a fare and one-third for the meeting over all of their lines excepting The Eastern Steamship Company.

Your Secretary has made application at the same time to the Trunk Line Association and the Central Passenger Association for the same rate, and it will no doubt be granted. Parties coming to the convention should give themselves plenty of time to buy their ticket and get the usual certificate from the ticket agent at their home office entitling them to the reduced fare.

There will be more flowers staged in Boston, Jan. 24th, than have ever been staged at one time and place in the world, and every Carnation man who can should attend this meeting.

ALBERT M. HERR, Sec.

MASSACHUSETTS HORTICULTURAL SOCIETY.

Dr. L. O. Howard, chief of the bureau of entomology in Washington, lectured on "The Possibilities from Insect Parasites," illustrated with stereopticon views, at Horticultural Hall last Saturday.

The lecture consisted of a careful historical summary of all of the work that has been done in different parts of the world with the practical handling of the insect enemies of injurious insects, starting with the first attempt in 1855 by Dr. Asa Fitch, then State entomologist of New York, to import the European parasites of the wheat midge, and closing with the present attempt to import into New England the European and Japanese parasites of the gypsy moth and brown-tail moth. The excellent work carried on in California in this direction was described at some length, from the first overwhelming success of the importation of the Australian ladybird in 1889 to destroy the fluted scale, down to the latest importation of an ichneumon fly from Spain, which is a parasite of the codling moth of the apple. The work done in Hawaii, in Western Australia, and in South Africa received due attention, and the similar work carried on under the United States Department at Washington, naturally, was not disregarded.

With regard to the gypsy moth and brown-tail moth, he expressed himself as hopeful of success. He described in some detail his last summer's trip to organize the work of importing parasites of these two insects, and stated that it was difficult in very many localities to find any specimens at all of the gypsy moth, although it is well understood that in almost any year it is liable to appear in considerable numbers. The work of last summer showed that it was an easy thing to import parasitized specimens of both species into Massachusetts, and it now remains simply to bring over as many as possible and to care for them as well as possible, in the confident hope that some of them will establish themselves and become permanent denizens of the United States. Surely, with the extraordinary abundance of food which they will find in eastern Massachusetts, there can be no reason, unless it be climatic, why they should not breed rapidly and eventually reduce both the gypsy moth and brown-tail moth to approximately European conditions.

The 1906 schedule of prizes and exhibitions is issued. In the general arrangement it follows closely that of previous years. There are to be thirteen exhibitions, one less than in 1905, and a further reduction of the weekly Saturday summer shows is made by cutting out two in August, so that this year there will be two in July and two in August. An additional two days' exhibition in October is established exclusively for the fruit and vegetable interests.

Five hundred and seventy-four entries of mostly three prizes each are offered in the several departments of

plants and flowers, fruits, vegetables, and gardens, covering a total amount of \$6,700, an increase of \$200 over the preceding year.

Several changes in the rules and regulations are to be noted, especially those relating to commercial exhibitors, who are to receive more encouragement under the new rules than they have had in the past. An important notice to exhibitors, requesting the filing of a list of their exhibits, is also a step in the right direction.

Included in the society's schedule are the lists of premiums offered by the American Carnation Society and the American Rose Society, which are to hold their annual meetings and exhibitions at Horticultural Hall, Boston, on January 24 and 25 and March 23-25, respectively. Copies of the schedule may be had on application to the secretary, Mr. W. C. Rich, at Horticultural Hall, Boston.

NEW YORK FLORISTS' CLUB.

The following resolutions were passed at the club meeting, January 8, 1906:

Whereas, death has removed from us Mrs. Hannah Holmes Allen, wife of Charles Linnaeus Allen, seedsman, Floral Park, and mother of Charles H. Allen, a former president, and William Stuart Allen, a former secretary, of this organization, therefore be it

Resolved, That we tender our most sincere sympathy to the aged husband, whose help-mate the deceased was for these more than fifty years, and to her sons, our brothers in the craft, in their great bereavement.

The life of Mrs. Allen typified the highest and best womanhood. To know her was to love her, and those who knew her best, loved her most. Delighting in all nature, she was passionately fond of flowers, and those of us who were privileged to visit her pleasant home at Floral Park, were deeply impressed with the responsiveness with which every plant and flower cultivated by her yielded to her tender care and attention; they seemed to grow and blossom at her very touch. Frank, generous, hospitable, and kindly in all her actions, Mrs. Allen will be sadly missed by a host of friends; but those who mourn her passing away should take comfort in the fact that her beautiful character demands of us to say truly of her, as was said of the ideal woman of old, "Her children and her children's children shall rise up and call her blessed."

Resolved further, that these resolutions be spread upon the minutes of our Club, and a copy sent to the family of the deceased.

(Signed) ALEX. WALLACE,
PATRICK O'MARA,
WM. J. STEWART.

PASADENA GARDENERS' ASSOCIATION.

At the meeting held on January 5, officers were elected as follows: President, A. T. Hanson; vice-president,



John Blake; secretary, Herbert E. George; treasurer, P. W. Jennock; sergeant-at-arms, E. Hurny. The society now numbers 37. At the next meeting a talk on Insects and Scale will be given by C. A. Day, horticultural inspector.

At the annual Carnival of Roses on New Year's day, this association exhibited a float representing a miniature flower garden. At the entrance was an arch of vines; in the centre was a lawn made of Ficus repens, in which were a bed of roses and asters, pink and white, and one of white carnations surrounding a bonaparte. The sides of the float were decked with pink and white carnations and geraniums; kentias were at the end. White marguerites and English ivy covered the wheels. The float was drawn by four white horses with pink trappings. (See illustration.)

H. E. GEORGE.

H. H. RITTER.

We take pleasure in presenting the portrait of H. H. Ritter of Dayton, O., who has been appointed director of the S. A. F. to succeed H. M. Attick. Mr.



Ritter's photograph did not reach us in time to appear with the portraits of the other appointees published last week. Mr. Ritter is a worthy representative of the section which has been so constant in its support of the society from its inception, and President Kasting has shown excellent judgment in his selection.

NEW BEDFORD HORTICULTURAL SOCIETY.

The officers for the ensuing year are as follows: President, Wm. Keith; vice-president, F. C. Barrows; treasurer, Wm. A. Gibbs; secretary, J. C. Forbes; executive board, James Garthly, C. A. S. Sherman, J. McVicker, E. E. Shaw, A. H. Peters.

ST. LOUIS FLORISTS' CLUB.

At the meeting on Jan. 11, twenty members were present. The by-laws were read for the second time. Charles

Beyer gave an interesting talk on "Forcing Plants for Easter"; John Steidle spoke of his recent visit to the Chicago growers, of the fine carnations and roses, especially Killarney, that he saw; F. W. Burrows spoke entertainingly on wild smilax, how it goes and is shipped.

A motion was made to make the next meeting a carnation meeting, and to offer \$25 in prizes, as follows: Best 25 white, 25 light pink, 25 dark pink, 25 variegated, 25 red; first prize, \$3; second prize, \$2 in each instance.

The question of holding a flower show this year was laid over. Mr. Kellogg of Pleasant Hill, Mo., was a visitor.

PROVIDENCE GARDENERS' AND FLORISTS' CLUB.

The tenth annual dinner of this prosperous organization took place at the Hotel Newman, Providence, R. I., on the evening of January 12. Upwards of fifty gentlemen were in attendance. A brief business session preceded the banquet, J. F. Schellinger presiding. W. E. Chappell was appointed toastmaster and took charge of the after-dinner exercises in his usual able manner. Among the speakers and their topics were William Hill, on the profession of the gardener; C. S. Macnair, on carnations; J. B. Canning, on carnations; John A. Macrae, Alexander Macrae, on the use of electricity in plant forcing; T. F. Keller, James Hockey, H. Leach, A. M. Rennie, W. S. Pino, Robt. Johnston, M. Sweeney, D. E. Newell, H. Patry, W. B. Wilson, Wm. Appleton, T. J. Johnston and Edw. O'Brien. C. A. Bellows of Adamsdale Mass., was a visitor.

KENTUCKY SOCIETY OF FLORISTS.

At the last meeting of this society the following officers were elected: President, Anders Rasmussen; vice-president, August R. Baumer; secretary, Fred L. Schulz; financial secretary, Louis Kirch; treasurer, C. H. Kunzman; sergeant-at-arms, Joseph Wettle; trustee for three years, W. Susemichel.

The Florists' Bowling Club held its regular meeting on the 9th, with a good attendance.

CLUB AND SOCIETY NOTES.

The Monmouth County Horticultural Society held its second annual banquet at the Sheridan Hotel, Red Bank, N. J., on January 11.

The Tarrytown Horticultural Society held its seventh annual dinner at the Florence Hotel, Tarrytown, N. Y., on Wednesday evening, January 17.

The first farmers' institute of the winter by the Marshfield (Mass.) Horticultural and Agricultural Society will be held Jan. 20. Gypsy Moths will be the subject. President Thomas W. Lawson will occupy the chair.

The annual dinner of the New York Florists' Club will be held on Saturday evening, February 3, at the St. Denis Hotel. The usual joyous program is promised. Apply for tickets to W. F. Sheridan, 39 West 28th street, New York City.

CARNATION WINSOR.



Our illustration shows a carnation house of the F. R. Pierson Company at Scarborough, N. Y. This magnificent structure covers an area of half an acre and contains about 20,000 plants. The three middle benches, as shown

in the picture, are occupied by Winsor, a new carnation which has evoked unbounded admiration wherever shown. The flower strongly resembles the Lawson in form and other characteristics, but the color is that rich

satiny pink long-sought and rarely attained by the hybridizer. The wonderful productiveness of the variety is well displayed in the illustration, as is its vigorous, healthy growth. It will take high rank in the Boston show.

OUR SUPPLEMENT.

The accompanying colored plate shows the *Nigella* Miss Jekyll which is being distributed by Messrs. Sutton and Sons. *Nigella damascena* is a very popular flower in English gardens. Few plants have so many popular names as the *nigella*, some of them being "Love-in-a-Mist"—the most familiar,—"Devil-in-a-Bush," "Fennel Flower," "St. Catherine's Wheel," and "Bishop's Wort." Most of these names derive their origin from the curious and quaint appearance of the pale blue flowers surrounded by the leafy involucre. *Nigella damascena* is a native of South Europe and was introduced from there in 1570, so that it is a very old inhabitant of European gardens. The typical *Nigella damascena* is a plant some 18 inches high, of erect branching habit with pretty fennel-like foliage and a pale blue flower peeping out from its leafy surroundings at the end of each shoot. The value of "Love-in-a-Mist" does not lie in the flowers alone however, for the latter are succeeded by curious horned carpels, which are decidedly ornamental and which give to the flower one of its popular names, "Devil-in-a-Bush."

There are many varieties of *Nigella damascena* in cultivation, some with white, others with blue-purple and double flowers, but the finest of all is undoubtedly *Nigella* Miss Jekyll shown in the colored plate. It was raised by and named after Miss Jekyll. This variety gives an abundance of long-stemmed flowers which are of a clear corn-flower blue prettily set in slender foliage. The plant is perfectly hardy and an autumn sowing out of doors produces even finer specimens the following summer than seeds do that are sown in the spring. *Nigella hispanica* is a beautiful plant with large handsome deep blue flowers, having blood red stamens. It is a native of the fields of Southern Spain and North Africa and is quite as hardy as the common Love-in-a-Mist, while it comes into flower earlier. It has been in cultivation since 1629, but it has never become so common in gardens as *damascena* probably because it is not quite so hardy and its culture gives rather more trouble. In all gardens where the Love-in-a-Mist is grown the new *Nigella* Miss Jekyll will doubtless soon become a great favorite.

G. C. WATSON PAYS HIS RESPECTS TO "PHIL."

Jno. Welsh Young hails me as the "junior member" of the horticultural press. John is hereby informed, if he does not already know, that I was divesting myself of more or less serious horticultural literature when he was stealing apples in knee breeches! John means well, but he talks on the spur. Any old bluff is accepted by him as the most serious proposition, and the boys, confound them, take advantage of that fact and abuse things! Such is John's naivette, ductility and resilience, however—he instantly converts it all into news of the finest water; and not only that, but he manages to get it printed too! Here's a health to you, John! Your continued presence in the horticultural arena is an enduring charm and contributes wonderfully to the gaiety of nations. But, seriously, John, did you ever try to tincture a glass of desire with a dash of discretion? I have. It's not a pleasant drink, but it does one good afterwards.

THE RICHMOND ROSE

Own root, \$12 per 100, \$100 per 1000.

Orders booked for Grafted Richmond, \$15 per 100, \$150 per 1000.

Send for Trade List quoting the best rose novelties of The Dicksons, The Pauls, Soupert and Notting, Pernet-Ducher and Lambert.

Splendid Assortment of **Coleus**, \$2 per 100.

The Novelties { **SENSATION** (English) 25cts. \$2.50 per dozen.
DUNEIRA, Giant-leaved 10cts. 1.00 " "

Complete Assortment of Breuant's Giant type of **Heliotrope**—in perfect health, \$3 per 100, \$25 per 1000.

Dwarf French **Lantanas**, brilliant colors, \$3 per 100, \$25 per 1000.

Our Trade List describes the **NEW CHRYSANTHEMUMS** of the year, with records made. We have them all.

THE E. G. HILL CO., - - Richmond, Indiana

BOOK REVIEW.

"The First County Park System," by Frederick W. Kelsey.—"The First County Park System" is an authentic and graphically written history of the Essex County, New Jersey, public parks, now one of the most important park systems in the country. The author, Mr. Frederick W. Kelsey, was a member and vice-president of the first board of five commissioners selected to lay out the parks. He formulated the plan which was the basis of the subsequent legislation to provide for the park system, for which the first appropriation was \$2,500,000. He is probably more familiar with the inception and workings of the enterprise than any other person, and from his intimate knowledge of events is recognized as being especially well qualified to write this history. To the forcibly written narrative of events is added the interest of personal touch and experience.

The book covers a period of ten years, from the first inception of the enterprise to the practical completion of some of the parks, and to date. It tells how both public opinion and legislation favored the project, and how these favorable conditions continued until the blighting influence of special interests became potential factors in the undertaking. It gives much information as to other park organizations, from Boston to San Francisco, and makes some concise recommendations of practical application to all park departments and other boards transacting public business.

The facts are concisely and interestingly presented, and the volume contains most valuable information, not only for creating and laying out new park systems, but timely suggestions for those already established.

The book is beautifully illustrated with ten full-page half-tone views of the different parks, and a County map in colors, showing at a glance the parks and proposed parkways.

This is a very handsome volume,



The photograph herewith reproduced shows the plant exhibits in Manatee county booth at the recent State Fair and Mid-Winter Exposition at Tampa, Florida, in which Reasoner Bros. were the largest contributors and received all the first and fourteen minor prizes. The neat bamboo work was made from bamboo taken from some clumps of *B. argentea striata*, which have been in the Reasoner nur-

series for over twenty years. The fair was a great success for the State and was visited largely by home-seekers and tourists, among them some of the prominent northern florists, who seemed surprised at the extent of the show. The exhibits of fruits and vegetables were extensive and very educational, showing what is being raised regularly in Florida.

A HANDY SOUVENIR.

Kroeschell Bros. Company, 35 Erie street, Chicago, are sending out to all who apply with a two-cent stamp that convenient carnation measure which was so well received by the carnation enthusiasts last year. It is a simple and yet exact gauge with which you can tell the size of a flower. Send your address with stamp and get one.

and is printed on heavy laid paper; large 12mo; 300 pages; handsomely bound in cloth. Price, \$1.25, postpaid. The J. S. Ogilvie Publishing Company, 57 Rose Street, New York, publishers, will send it by mail, post paid, to any address on receipt of price, or it may be ordered from HORTICULTURE.

QUEEN BEATRICE



The new rose Queen Beatrice is a sturdy child of Liberty and Mme. Chatenay, raised by Peter Bisset, of a fine pink color and excellent commercial qualities in all particulars. F. H. Kramer of Washington, D. C., pur-

MCKINLEY DAY.

The Committee on McKinley Memorial for the American Carnation Society and Society of American Florists and Ornamental Horticulturists calls the attention of all florists in the United States to the nearness of the anniversary of our late President's birthday, January 29, 1906, "McKinley Day," when millions of our citizens will wear a carnation as a silent tribute to his memory. The committee has prepared a suitable display placard with a splendid likeness of President McKinley, announcing this anniversary, and showing the action of the florists in the building of the National McKinley Memorial at Canton, Ohio, the late President's home. This display card cannot fail to remind many

people of this custom who otherwise might overlook the date. Upon receipt of any contribution of \$1.00 or more to this fund, or a pledge to contribute 10 per cent. or upward of the carnation sales on January 29, 1906, the committee will mail to the contributor this display placard.

Address: H. M. Altick, Chairman, Dayton, Ohio.

The Herendeen Manufacturing Company of Geneva, N. Y., held a two days' business convention last week, which closed with a banquet at the Kirkwood House, at which about seventy guests were present. F. A. Herendeen was toastmaster; Mayor Rose extended a cordial welcome to the strangers. Such affairs do much to strengthen the relations between a growing house and its representatives.

ALFRED DIMMOCK.

As announced in our advertising columns, Alfred Dimmock has severed his connection with the firm of F. Sander & Sons and has accepted the European agency for the Yokohama Nurseries, under the direction of Messrs. Suzuki & Iida, of 31 Barclay street, New York. This terminates a service of twenty-five years with Messrs. Sander. No house ever had a more faithful representative. During this period the Sander establishment has grown from three greenhouses to the immense plants at St. Albans and Bruges, and the orchid has attained its position as a regular florists' commodity in the great cities of America very largely through Mr. Dimmock's persistent efforts in the early days of orchid shipments to New York. He leaves his old employers on most friendly terms, but feels that after eighteen years' crossing and recrossing the Atlantic he is now entitled to a period of home life with his family. We wish him full enjoyment of his well-earned domestic happiness and abundant business success for himself and the esteemed house which he will henceforth represent.

FIRE RECORD.

A fire in the green house of Charles Erdman, Baltimore, Md., January 3, caused a loss of about \$500.

A slight fire started in the greenhouse of John Lambert, 72 Jepson street, Fall River, Mass., but was extinguished before great damage was done.

A fire on the estate of Charles W. Hubbard, Weston, Mass., on the night of January 8 totally destroyed a large stable and greenhouse. Total valuation, \$35,000.

Fire occurred twice last week in the store of Fine Bros., 142 Dartmouth street, Boston, said to have been caused by the overturning of an oil stove. Damage in both cases was trifling.

The residence and hot house of Willis E. Ingalls, situated about a mile outside Bridgton Village, Me., were burned on Jan. 4. The buildings were valued at about \$3000, and were insured.

The green houses of Robert Dennison, 47th street and Conshohocken avenue, Philadelphia, were destroyed by fire on the morning of January 7. The loss is placed at \$4000. The fire is said to have originated in the boiler house.

A fire which started on the ground floor of the Otto Katzenstein & Co.'s establishment, 68 S. Pryor street, Atlanta, Ga., destroyed the offices and damaged the stock of tree seeds. The firm is now in temporary quarters, but will speedily resume their regular routine.



DREER'S Reliable FLOWER SEEDS

New crops of almost all varieties are now in hand
and early orders are solicited

Among the many Flower Seed specialties which we handle none receive closer attention than we know our stocks of these to be the finest procurable at any price. We offer below a few of the most important kinds. For full list see our catalogues for 1906, free on application.

ASTERS

	Tr. pkt.	Oz.
Superb Late Branching, Pure white .....	.25	\$1.00
" " " Shell pink .....	.25	1.00
" " " Rose pink .....	.25	1.00
" " " Deep purple .....	.25	1.00
" " " Lavender .....	.25	1.00
" " " Crimson .....	.25	1.00
" " " Finest mixed .....	.25	.75
Daybreak .....	.40	2.50
Purity .....	.40	2.00
Lavender Gem .....	.40	2.00
Snowdrift .....	.50	4.00
White Fleece (New) .....	.50	
Comet, carmine .....	.30	1.50
Comet, dark blue .....	.30	1.50
" " light blue .....	.30	1.50
" " Peach-blossom pink .....	.30	1.50
" " deep rose .....	.30	1.50
" " finest mixed .....	.30	1.25
" " Giant white .....	.30	1.25
Comet, Giant, The Bride .....	.30	1.25
" " Branching .....	.25	1.00
Queen of the Market, white .....	.20	.60
" " lavender .....	.20	.60
" " pink .....	.20	.60
" " bright rose .....	.20	.60
" " purple .....	.20	.60
" " crimson .....	.20	.60
" " mixed .....	.15	.50

NOW IS THE TIME to start such things as Ageratum, Begonias, Cobaea, Dracena, Lobelia, Musa, Nicotiana, Petunias, Salvia, Stocks, Smilax, Verbena, Vinca, etc.

HENRY A. DREER = = 714 Chestnut Street, Philadelphia, Pa.



Herewith we show a bench of Helen M. Gould, the F. R. Pierson Company's phenomenal deep pink sport from carnation Enchantress. The flowers are

very full and solid; a delicate pencilling of deeper pink overlays the petals, making an unusual but pleasing effect. Whoever grows Enchantress will can grow Helen M. Gould.

BUSINESS CHANGES.

The Dutchess Co. Violet Co. has removed to 115 W. 30th street, New York.
D. C. Lorimer and O. H. Hall have

purchased the business of F. M. Johnson, Rockford, Ill.
A. Lange of Chicago announces his removal to 40 East Madison street, Heyworth Building.

D. Robinson's Sons, florists, of Chelsea, Mass., are now located at the corner of Broadway and Fourth streets.

Mr. Lion, late of Lion & Wertheimer, can now be found at 114 and 116 Spring street, New York, under the firm name of Lion & Co.

"Arthur Cowee"

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"GLENDALE"

New Variegated Carnation

Markings similar to Mrs. G. M. Bradt. A very large flower on strong stems, extremely free and healthy. A non-burster. A fancy of the highest type.

Sample blooms expressed at \$1.00 per dozen. All our carnations have been rather late this season as elsewhere. That is the reason we have not been advertising "GLENDALE" as well as other varieties more extensively.

Rooted Cuttings \$12.00 per 100: \$100.00 per 1000.

Introducers { Chicago Carnation Co., Joliet, Ill.
W. J. & M. S. Vesey, Ft. Wayne, Ind.

QUEEN BEATRICE

CINCINNATI PARK NOTES.

J. W. Rodgers has been appointed superintendent of city parks to succeed B. P. Critchell, who has held the position for a number of years. The greenhouse which has been maintained by the water works department in Eden Park at an expense of about \$15,000 per annum, is to be abandoned, if the Board of Public Service adopts the recommendation of the new superintendent. It is proposed that the park



J. W. Rodgers

greenhouses shall furnish the bedding plants used at the various pumping stations.

The business men of this city have declared themselves in favor of a park commission with power to fix their own tax levy, and will urge the General Assembly to enact such a law in the near future. This plan of caring for the parks was in vogue some years ago.

CATALOGUES RECEIVED.

W. B. Longstreth, Gratiot, O. Seed Annual and Bargain Catalogue of seeds and plants.

Good & Reese Co., Springfield, O. Trade list for spring of 1906. A comprehensive plant catalogue.

Forest Nursery and Seed Co., McMinnville, Tenn. Surplus wholesale list of seeds and nursery grown seedlings.

The Templin Company, Calla, O. Profusely illustrated catalogue of flower and vegetable seeds, bulbs, hardy plants, etc.

W. Atlee Burpee & Co., Philadelphia. Wholesale Catalogue for seedsmen and dealers. No flounces, but plenty of solid meat.

H. F. Michell Co., Philadelphia. Wholesale Seed Catalogue. Michell's "Very First" tomato adorns the title page. The Waldorf-Astoria never had a better one.

D. B. Long's sample book of Carnation Day cards. These cards should be very serviceable to florists wishing to promote the sale of carnations on January 29.

Burnham Hitchings Pierson Company, New York and Boston. "The Two P's Told in the Pleasure and Profit of Cold Frames." Cleverly written, fully illustrated and handsomely gotten up. It should sell the goods.

R. & J. Farquhar & Co., 6 and 7 South Market street, Boston—Garden Annual for 1906. A superb illustration, in colors, of *Campanula persicifolia grandiflora* adorns the first cover page and hybrid delphiniums are shown on the last cover page with a rare fidelity to colors difficult to reproduce. Many new and striking half-tone flower portraits appear in the 176 pages of interesting reading matter. In the novelty section some good new things are listed.

OBITUARY.

Our English contemporaries record the death on December 24, last, of Mr. Fred Wm. Thomas Burbidge, M. A., V. M. H., curator of Trinity College Botanical Gardens, Dublin, in his fifty-eighth year. His knowledge of



botany and horticulture was extensive and thorough, and he has contributed many valuable additions to plant literature, not the least being "The Narcissus" illustrated and written by him. In 1877 he travelled through Borneo and other portions of the East Indian Archipelago in the search of plants for Messrs. James Veitch & Sons.

Carnation Society **WELCOME** Visitors

We shall appreciate a call and inspection of the facilities
for receiving, storing and shipping

CUT FLOWERS

At the Largest Wholesale Flower Market in New England.

WELCH BROS., CITY HALL FLOWER MARKET,
15 Province St., Rear Parker House, Boston.

NEWS NOTES.

Albert L. Hall, florist, of Meriden, Conn., has been discharged from bankruptcy.

The Park Floral Company, Denver, has sent out a desk blotting pad with celluloid top, prettily decorated with holly in colors.

George W. Fullick, of Wayland, Mass., has gone into bankruptcy. Liabilities \$4489, assets \$2543, of which \$2200 is represented in encumbered real estate.

Messrs. T. J. Gorman and Robinson, the Outremont, P. Q. florists, have again been elected by acclamation as town councilors, but Mr. McKenna is having opposition in Cote de Neige.

Rosen-Zeitung, Trier, comes to us this month with two colored plates of roses; Contessa Cecilia Lurani, salmon pink, hybrid tea, and Hermann Rane, creamy blush and yellow hybrid tea. Both very tempting.

Martin & Sons, St. Catharine street, Montreal, were sold out by bailiff's sale on Tuesday, the 8th inst. This is an old established florist firm, doing business in the one store for about thirty years and at one time was very prosperous.

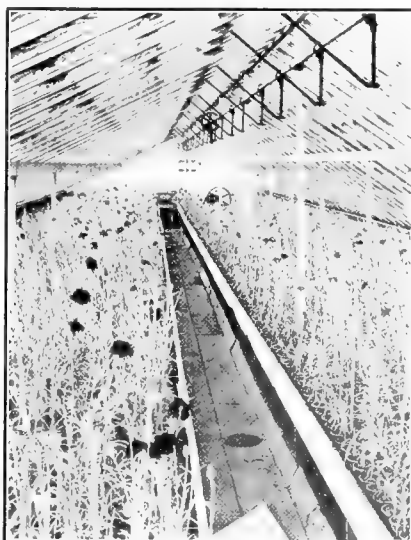
On January 10th a formal transfer of all the property of the assigned estate of Robert Craig & Son was made by Assignee Burton to Robert A. Craig for the stated sum of twenty-two thousand dollars. Robert A. Craig is presumed to be acting as trustee for the new company, which is to operate the plant. Assignee Burton's duties are now purely financial and his connection with the practical running of the Craig place ceased on January 10th.

H. D. Heminway, of the Hartford School of Horticulture, advocates the liberal planting of white pine trees. He considers it one of the most valuable of the soft woods, and one for which there is always a market. Two plantations have been started in Connecticut recently, and there is room for many more. Mr. Heminway deplores the indiscriminate cutting of everything that can be sold from a wood-lot. The farmer would be repaid in the end if he cut only the ripe wood, and replanted at a reasonable time.

CARNATION IMPERIAL.



On this page we illustrate houses of two of John E. Haines' productions. The carnation John E. Haines is al-



Carnation John E. Haines.

ready so well known throughout the country that any description of this fine scarlet other than what is con-

voyed in the illustration will be superfluous. The other variety shown is a seedling which Mr. Haines has named Imperial, and which will be disseminated in 1907 or 1908. It has attracted much attention wherever exhibited. At Philadelphia, last November, it received second prize in the seedling class. At present time it carries stems from 3 to 3 1-2 feet in length.

The report on the Arnold Arboretum at Jamaica Plain, recently submitted to Harvard board of overseers, recommends the addition of two new departments, one for the study of diseases of trees and another for the study of insects injurious to trees and other plants. It states that the income of the Arboretum is inadequate for additional work; that an endowment that will produce an income of \$50,000 will hardly be sufficient to carry on the work already commenced and provide for the new departments mentioned; it suggests an assured income for carrying on dendrological explorations in this and foreign countries and for the publication of the results of its valuable scientific work. A warm tribute is paid to the life-long devotion of Prof. Sargent to the Arboretum and the contributions from his personal income in its behalf.



A. DIMMOCK.

ANNOUNCEMENT.

I beg to inform my friends in the trade that I am no longer representing Sander & Sons—having accepted the European Agency for the **Yokohama Nursery Co.**, under the direction of Messrs. Suzuki & Iida, **31 Barclay Street, New York City**, with offices in London, and through them I will engage in the importing and exporting of all kinds of Japanese stock, together with Orchids, Palms, and other decorative plants.

Respectfully yours,

A. DIMMOCK.

J. E. FELTHOUSEN

GERANIUMS

We have at least 150,000 geraniums in 2 1/4 in. pots and in fine condition and the leaders at \$18.00 per 1,000, \$2.00 per 100.

	Per 100
Rose Geraniums, 2 1/4 in. \$18.00 per 1,000, \$2.00	
Ageratum Gurney, P. Pauline and others	
" " 2 1/4 in.	2.00
" " R. C. ....	.60
Fuchsias all the leading varieties, 2 1/4 in.	3.00
Heliotrope, all dark, 2 1/4 in.	3.00
Sweet Alyssum, 2 1/4 in.	2.00
Lobelia, 2 1/4 in.	2.00
Alternanthera, rooted cuttings. ....	.50
German Ivy, all rooted cuttings. ....	.50
English Ivy, extra fine rooted cutting.	1.50
The World and all of Coleus R. C. \$1.00 per 100:	
\$5.00 per 1,000. Cash must accompany the order.	

J. E. Felthousen, Schenectady, N. Y.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

PANSIES

Over one million plants ready from our Famous Strain. None better. \$1.50 per 500, \$2.50 per 1000.

Daisies (Belus) fine plants, \$2.00 per 1000. Forget-me-not, Hardy blue, \$3.00 per 1000. Geraniums out of 2 1/2 inch pots, best varieties, \$1.50 per 100. 50,000 ready now.

J. C. SCHMIDT CO., - BRISTOL, PA.

Daisies, Daisies and Daisies

We are headquarters for MARGUERITES. We have 7 varieties and make it our specialty. Stock of 4 varieties is offered for sale and with a guarantee that it is entirely free from leaf miner or other insect pests. Prices on application. Flowers in any quantity October 1st to July 1st.

FLETCHER of ALBIRNDALE.
Stall 1, Boston Flower Market, Park St.

CYCLAMEN SEEDLINGS

ONCE TRANSPLANTED.

Giant Strain; none better; including Salmonum, New fringed, Roccoco and Papilio in five separate colors.

\$2.50 per 100, \$22.00 per 1000.

C. WINTERICH, Defiance, Ohio.

It is never too early nor too late to order the

Scott Fern

Best Commercial Introduction for many years
JOHN SCOTT

Flatbush, Brooklyn, New York.

NEPHROLEPIS BARROWSII, \$10 PER 100	
SCOTTII, 5 " "	
BOSTON, 3 " "	

HENRY H. BARROWS & SON,
Florists, Whitman, Mass.

S. S. SKIDELSKY

824 No. 24th St.

PHILADELPHIA

Correspondence solicited

GODFREY ASCHMANN

1012 Ontario St., PHILADELPHIA

Importers of Araucaria excelsa, glauca, compacta, and robusta

PALMS and AZALEAS

Write for prices

ORDER AT ONCE

TUBEROUS BEGONIAS

ROOTED Gold Medal Strain

SINGLES—White, Yellow, Scarlet, Orange, Pink, separate colors, \$3.00 per 100; Mixed Colors, \$2.75. DOUBLES—Separate colors, as above, \$4.50 per 100; Mixed Colors, \$3.75.

HUBERT & CO., Ltd.

N. LePAGE, Rep., Mt. Vernon, N. Y.

If you offer the right goods in the right way in these columns, you will not lack for customers.

Palms, Ferns

And Decorative Plants

A Fine Lot of AZALEAS in Great Variety

A Large Assortment of Ferns for Jardinieres

Also, Araucarias, Rubbers, Pandanus, Aralias, Dracaenas, Aspidistras, Marantias, Crotons etc., etc.

WHOLESALE PRICE LIST ON APPLICATION

A. LEUTHY & CO.

Importers and Exporters
Growers and Dealers

PERKINS STREET NURSERIES
Roslindale, Boston, Mass.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

Orchids

Largest Importers, Exporters, Growers
and Hybridists in the World

Sander, St. Albans, England

ORCHIDS

Arrived in superb condition—Cattleya Trianae, Cattleya Gigas Sanderiana, Oncidium Fuscum, Oncidium Kramerianum and Burlingtonia fragrans.

Lager & Hurrell, Growers and Importers.... Summit, N. J.

ORCHIDS, PALMS

FOLIAGE PLANTS

Bay and Box Trees

JULIUS ROEHRS CO.

EXOTIC NURSERIES RUTHERFORD, N. J.

Nephrolepis Piersoni Elegantissima

See our advertisement in issue of Dec. 9—Page 623.

OPENING ANNOUNCEMENT

Our additional building will be ready for occupancy on Monday the 22nd inst.
Visiting florists going to or coming from the convention are cordially invited to call on us and inspect our improved facilities.

SPECIALTIES THIS WEEK

White Lilacs, Valley, Cattleyas, Farleyense. (cut and plants).

SAMUEL S. PENNOCK, THE WHOLESALE FLORIST OF PHILADELPHIA
1610-1618 LUDLOW STREET. Store closes 8 p. m.

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York
In writing advertisers, mention Horticulture

ALEX. McCONNELL

546 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

Geo. H. Cooke FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

FRED C. WEBER FLORIST

4326-28 ST. LOUIS, MO.
OLIVE STREET
Established 1873
Long Distance Phone Bell Lindell 676

Blackstone Florist
14th and H Sts. N.W.
Washington, D.C.

Sphagnum Moss and Cedar Poles
Moss 1.5 lb Bale, \$1.25; 3 Bales, \$3.25; 5 Bales, \$5.00; Pkg Moss, 10 Bales, \$7.50. Poles, 2 inch butt 8 feet long, \$15.00 per 1000; 2½ inch butt 10 to 12 feet long, \$22.50 per 1000. Cash.

H. R. AKERS, Chatsworth, N. J.

NEW CARNATIONS AT COTTAGE GARDENS.

Among the sterling new productions in carnations holding the centre of the stage at Cottage Gardens at the present time none impress the visitor more strongly than Alma Ward. This regal variety is of Prosperity ancestry, having the characteristic large petal formation of the parent, but blooming much more luxuriantly. The color at first is slightly flushed pink, but when fully mature the flower is pure white. An ideal grower is Rachel Marie Thompson. This is in the popular cerise color and has every indication of a prosperous career. Slightly lighter in color, not unlike that of Ethel Crocker, is the variety known as 569. This is one of the most profuse bloomers, with flower of medium size, a disposition to go striped and mottled with a paler tint being its only noticeable fault.

504 is one that Mr. Ward thinks will butt up against Aristocrat. 508 is not unlike the preceding, but shows a more even color. 503 reminds one much of Nelson Fisher. A pink one, known as the Pink Harry Fenn, is similar to that excellent variety in growth and contour of flower. 2651 is a Prosperity seedling, prettily flushed on a white ground. 2653 is a promising white. Among older varieties Lady Bountiful is holding on splendidly, an occasional half-single flower being its only deficiency. Octoroon maintains its position as a steady goer among the money-making crimson. There are seedlings innumerable from which we cannot fail to hear sensational returns before long. At present, of course, Robert Craig is the admired of admirers, and every day brings pilgrimages from far and near.

A. Gude & Bro. FLORISTS

1214 F ST., WASHINGTON. C

SAMUEL MURRAY Florist

Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO.
Beth 'Phones 2670 Main

DETROIT

John Breitmeyer's Sons

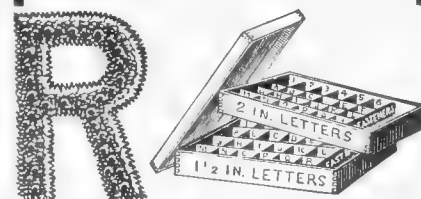
Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

Artistic Designs High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

REED & KELLER 122 West 25th St., New York

Florists' Supplies

We manufacture all our Metal Designs, Baskets, Wire Work & Novelties and are dealers in Glassware Decorative Greens and Florists' Requisites.

Always enterprising, we are now ready with a fine line of Easter Baskets.

Buy your Florist Supplies of

J. STERN & CO.

1928 GERMANTOWN AVE., PHILADELPHIA, PA.
Per postal

H. BAYERSDORFER & CO

50-56 North 4th Street
PHILADELPHIA, PA.

FLORISTS' SUPPLIES

BEST LINE IN THE COUNTRY

WILD SMILAX**\$3.50 and \$5.00 per case****THE LEO NIESSEN CO.****WHOLESALE FLORISTS****1217 Arch St., - PHILADELPHIA**

Store Open 7 A. M. to 8 P. M.

In writing advertisers, mention Horticulture

HORTICULTURE

Reaches the Readers

Who Buy*Make Note of It.***Carnations.****Beauty Bride
and Bridesmaid.****Lily of the Valley.****Violets.**

Telephone 6268-6267 Main

**WELCH BROS.
15 Province St.
BOSTON****WIETOR BROS.**

Wholesale Growers of

CUT FLOWERS**51-53 Wabash Ave., CHICAGO, ILL.,**

In writing advertisers, mention Horticulture

CHAS. W. McKELLAR**51 WABASH AVE., CHICAGO**Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers**A Daily Shipment****From 40 to 60 Growers**We can and will take care of your Cut
Flower and Supply Wants to advantage**E. F. WINTERSON CO.** 45-47-49 Wabash
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WHOLESALE****CUT FLOWERS****51 Wabash Av., Chicago, Ill.**

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E. H. HUNT**Wholesale****Cut Flowers****"THE OLD RELIABLE"****76 Wabash Av., CHICAGO**

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VAUGHAN & SPERRY**Wholesale****Commission Florists**If you wish to buy or sell, see them first
'PHONE CENTRAL 2571**60 WABASH AVE., CHICAGO**

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Southern Wild Smilax**IN ANY QUANTITY****W. E. McKISSICK**

Wholesale Florist

1221 Filbert St., PHILADELPHIA

EVERYTHING SEASONABLE IN

CUT FLOWERS**EDWARD REID, Wholesale**

Florist

1526 Ranstead Street, PHILADELPHIA

Store Closes 8 P. M.

WHOLESALE FLOWER MARKETS**TRADE PRICES—Per 100—TO DEALERS ONLY**

	CHICAGO		ST. LOUIS		PHILA.		BOSTON	
	Jan. 16		Jan. 16		Jan. 17		Jan. 18	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	40.00	to 50.00	40.00	to 50.00	65.00	to 75.00	40.00	to 60.00
" Extra.....	25.00	to 40.00	25.00	to 35.00	50.00	to 60.00	20.00	to 30.00
" No. 1.....	16.00	to 24.00	10.00	to 20.00	25.00	to 30.00	12.00	to 15.00
" Lower grades.....	6.00	to 8.00	5.00	to 8.00	8.00	to 12.50	4.00	to 8.00
Bride & 'Maid—Fan. & Sp.....	8.00	to 10.00	6.00	to 8.00	.....	to 15.00	8.00	to 12.00
" Extra.....	7.00	to 8.00	4.00	to 5.00	.....	to 12.00	6.00	to 8.00
" No. 1 and Lower gr.....	5.00	to 6.00	.....	to 3.00	8.00	to 10.00	2.00	to 6.00
Liberty, Fancy.....	8.00	to 10.00	6.00	to 8.00	.....	to 30.00	12.00	to 25.00
" Ordinary.....	4.00	to 8.00	4.00	to 5.00	10.00	to 15.00	8.00	to 12.00
Richmond, Fancy.....	8.00	to 12.00	.....	to 10.00	.....	to 25.00	25.00	to 50.00
" Ordinary.....	4.00	to 8.00	4.00	to 8.00	12.00	to 15.00	8.00	to 12.00
Golden Gate, Fancy.....	8.00	to 10.00	6.00	to 8.00	.....	to 12.00	8.00	to 12.00
" Ordinary.....	6.00	to 8.00	4.00	to 5.00	6.00	to 8.00	2.00	to 6.00
Chateauf, Fancy.....	10.00	to 12.00	6.00	to 8.00	.....	to 20.00	8.00	to 10.00
" Ordinary.....	6.00	to 8.00	3.00	to 5.00	10.00	to 15.00	2.00	to 4.00
CARNATIONS								
Fancy.....	3.00	to 5.00	3.00	to 4.00	3.00	to 6.00	3.00	to 4.00
Ordinary.....	1.50	to 2.50	1.50	to 2.50	1.50	to 2.00	1.50	to 2.00
MISCELLANEOUS								
Cattleyas.....	40.00	to 50.00	.....	to 50.00	50.00	to 60.00	.....	to 50.00
Cypripediums.....	12.00	to 16.00	.....	to 12.50	12.50	to 15.00	.....	to 12.00
Lily of the Valley.....	3.00	to 4.00	.....	to 3.00	2.00	to 5.00	2.00	to 4.00
Violets.....	.75	to 1.50	.40	to .50	.50	to 1.00	.50	to .75
Tulps.....	.....	to 1.00	3.00	to 4.00	.....	to 4.00	2.00	to 3.00
Romans Hya., Paper White, Nar.....	3.00	to 1.00	1.50	to 2.00	.....	to 1.00	1.00	to 2.00
Daffodils: Trumpets.....	4.00	to 1.00	.....	to 1.00	.....	to 5.00	2.00	to 4.00
Mignonette.....	6.00	to 10.00	2.00	to 6.00	3.00	to 5.00	2.00	to 4.00
Adiantum Cuneatum.....	.....	to .75	.....	to 1.00	.75	to 1.00	.75	to 1.00
" Croweanum.....	.....	to 1.00	.....	to 1.00	.....	to 1.50	.....	to 1.50
Smilax.....	12.00	to 16.00	12.50	to 15.00	12.50	to 15.00	8.00	to 12.00
Asparagus Plumosus, strings.....	40.00	to 50.00	25.00	to 50.00	35.00	to 50.00	.....	to 50.00
" " & Sprenger, bunches	30.00	to 35.00	25.00	to 50.00	50.00	to 75.00	.....	to 50.00

J. A. BUDLONG**37-39 Randolph Street, CHICAGO****Roses and
Carnations
A Specialty.....****WHOLESALE
GROWER of****CUT FLOWERS****PHILADELPHIA CUT FLOWER CO.****Wholesalers of Cut Flowers****1516 AND 1518 SANSOM ST.**

VICTORY

The most brilliant scarlet carnation. Requires only ordinary culture. Is a fancy in the fullest sense of the word and wholesaled at \$25.00 per 100 at Christmas.

Cut Flower Market Reports.

BOSTON While no great activity is noted in any special line, yet the flower market may be said to be in a healthy condition, the outlet taking care of the supply very satisfactorily, as a rule, except in the case of white carnations which seem to have struck an unappreciative two weeks and require considerable pushing in order to keep them moving. The carnation exhibition next week may help to improve the tone of the carnation market. The rose demand is not particularly active but the supply is correspondingly light most of the local growers being more or less off crop.

BUFFALO During the past week, a few days of April weather was had, and those who visited among flower stores could plainly see that the warm atmosphere had brought out carnations, roses and bulbous stock a little faster than desired. Stock was not so plentiful up to Wednesday, but Thursday, Friday and Saturday shipments came in heavy at the wholesalers', and naturally prices were at a decline. Carnations came on too fast; the ordinary, as usual, blocked the market to some extent, and consequently had to be moved at a lower price, and a few bargain signs later were seen. The Beauty, lily of the valley and violet trade were somewhat quiet, while lilies, peas, mignonette and white stock were in much better demand than the previous week. Green goods in fair supply.

INDIANAPOLIS. After a quiet week following New Year's the market opened with a brisk demand both retail and wholesale, and we see every indication of a period of very good business. Roses are more nearly equal to demand than at any time in the past six weeks with excellent quality, but a slight shortage of Beauties and other red roses. Carnations of all grades are to be had in great quantities. Tulips, jonquils, sweet peas and lilacs are on the market with demand ahead of supply. Prices have dropped since the holidays but high grade stock is still bringing good prices. All kinds of flowering plants are to be seen everywhere and moving quite freely.

NEW YORK No great change from conditions reported last week is apparent in the cut flower market. Accumulations in some lines, especially white material and bulbous stock generally, are becoming more troublesome and the necessity for unloading large lots

of roses, carnations and other staples after the very moderate daily call has been satisfied, is more imperative. Carnations are less fortunate at present than roses, the market rates being comparatively lower and the demand more uncertain. Quality is excellent in all cases.

PHILADELPHIA From the 8th to the 15th the Philadelphia cut flower market has been both plethoric and platitudinous, this condition being superinduced by too much stock and too little business—and a good deal of both. When it is mentioned that white roses of the lower grades were the best sellers on the market, enough has been said to indicate the state of things. Carnations particularly had a tough time of it. Yellow daffodils are now in and are selling fairly well. Killarney roses are a bit scarce on account of much wood being needed for cuttings

PACIFIC COAST NOTES.

The continuance of dry weather in the farming sections of California has caused the farmers to become worried. While in some sections the early rains have assured good crops, in other places the farmers have been compelled to cease operations. The stock men have suffered severely, many of them being compelled to buy feed for their cattle. In several sections stock succumbed to cold and lack of green feed.

In the southern part of the State severe frost this week hit flowers, vegetables and tender plants very hard in the vicinity of Pasadena and Los Angeles. Most tender plants at the former place were killed or seriously injured. It was the hardest frost Pasadena has had for many years, the thermometer showing ten below freezing point, and ice formed half an inch thick. At Los Angeles weather conditions are unfavorable, moderate rains, but weather very cold and stormy, and all vegetation backward. Considerable damage has been done here by frost, both to nursery stock and ornamental stock in private gardens, especially such as heliotrope, poinsettias, etc.

The Bureau of Plant Industry of the Department of Agriculture has established a new date garden at Yuma, A. T., especially for the cultivation of varieties from the Persian Gulf, and the foreign explorations of the bureau have resulted in the securing of many valuable varieties of dates for the Government date gardens of California and Arizona, and the results achieved in combating diseases of California orchard fruits have been especially gratifying. Remedies for the disease of orange trees known as "die back,"

have been discovered, and the proportion affected in a region where ten years ago 50 per cent of the trees were diseased, has been reduced to less than one-tenth of 1 per cent.

PHILADELPHIA NOTES.

Clarence J. Watson, manager for Samuel S. Pennock, will be married on the 24th inst.

Jacob D. Eisele of the Henry A. Dreer Corporation sailed for Europe on the S. S. Cedric Jan. 10. He will be gone about six weeks.

It is none too early to put dahlia roots in the sand for cutting purposes. The present mild weather for shipping and the Samuel S. Pennock distribution of the famous Atco stock is an opportunity that should not be missed. Mr. Pennock has the 26 best varieties for cut flower purposes.

V. E. Archambault, Jr., an esteemed associate member of the Florists' Club, died Jan. 11 after a brief illness.

Edward A. Stroud of the Strafford Carnation Farms is on the sick list.

Among the prominent new building operations we heard of in this vicinity are those of Adolph Farenwald, David Anderson, R. Scott & Son, Floral Exchange and Wm. A. Leonard.

Wm. J. Muth of the Cut Flower Co. has just returned from a ten-day trip among the growers. He reports good business and a cheerful feeling all along the line.

At present writing it looks as if there will be a good delegation from Philadelphia and vicinity to the carnation convention. Most of them intend to take the Fall River route the night before.

Samuel S. Pennock announces the opening of his additional building, 1608 and 1610 Ludlow street, adjoining his other establishment at 1612-1618 Ludlow street, for Monday, the 22nd inst. His new premises are of the most modern construction, with hot water heating and electric lighting throughout, and runs from Ludlow to Ranstead street, 101 feet by 25 feet, three stores and basement. The front part of the first floor will be used partly as a private office and partly for the elevator. The rear portion of the first floor, 44x25, will be used as a separate store, with entrance on Ranstead street. This new addition, nearly doubling his present floor space, will give Mr. Pennock greatly improved and much-needed facilities for the transaction of his large and rapidly increasing business. A cordial invitation is extended to the trade to call and inspect the new building.

Louis Menand, Albany, N. Y., has filed a petition in bankruptcy. Liabilities \$2,146.35, all unsecured, and no assets.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Jan. 13 1906	First Half of Week beginning Jan. 15 1906		Last Half of Week ending Jan. 13 1906	First Half of Week beginning Jan. 15 1906
Roses			Carnations		
Am. Beauty and Edgeley fan and sp.	40.00 to 60.00	40.00 to 60.00	Fancy	5.00 to 8.00	3.00 to 5.00
" extra	25.00 to 35.00	30.00 to 35.00	Ordinary	2.00 to 3.00	1.50 to 2.00
" No. 1	15.00 to 20.00	15.00 to 20.00	Cattleyas	35.00 to 50.00	40.00 to 60.00
" Lower grades	3.00 to 10.00	3.00 to 10.00	Cypripediums	10.00 to 12.00	10.00 to 12.00
Bride & "Maid, fan and sp.	10.00 to 15.00	10.00 to 15.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
" extra	6.00 to 10.00	6.00 to 10.00	Violets	40 to 1.00	.35 to .75
" No. 1 and lower grades	2.00 to 6.00	2.00 to 6.00	Tulips	2.00 to 4.00	2.00 to 4.00
Liberty, fancy	15.00 to 25.00	15.00 to 25.00	Rom in Hyacinth Paper White Nar.	1.00 to 2.00	1.00 to 2.00
" ordinary	3.00 to 10.00	3.00 to 10.00	Daffodils, Trumpets	3.00 to 4.00	3.00 to 4.00
Richmond, fancy	10.00 to 25.00	10.00 to 25.00	Nigronette	2.00 to 6.00	2.00 to 6.00
" ordinary	10.00 to 15.00	10.00 to 15.00	Adiantum Cuneatum	1.00 to 1.25	1.00 to 1.25
Golden Gate, fancy	2.00 to 6.00	2.00 to 6.00	" Croweanum	1.00 to 1.50	1.00 to 1.50
" ordinary	8.00 to 10.00	8.00 to 10.00	Smilax	8.00 to 15.00	8.00 to 15.00
Chatenay, fancy	2.00 to 6.00	2.00 to 6.00	Asparagus Plumosus	25.00 to 35.00	25.00 to 35.00
" ordinary	2.00 to 6.00	2.00 to 6.00	" & Sprenger, bunches	15.00 to 25.00	15.00 to 25.00

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	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	Jan. 16		Jan. 15		Jan. 16		Jan. 16	
ROSES								
Am. Beauty and Edgely, fan and sp.	40.00	to 50.00	to 60.00	50.00	to 60.00	50.00	to 60.00
" extra.....	.....	to 35.00	.....	to 30.00	30.00	to 50.00	25.00	to 35.00
" No. 1.....	.....	to 25.00	.....	to 15.00	15.00	to 25.00	12.50	to 15.00
" Lower grades.....	10.00	to 20.00	.....	to 8.00	8.00	to 15.00	4.00	to 5.00
Bride and Maid, fan, and sp.....	.....	to 10.00	.....	to 12.00	12.00	to 15.00	12.00	to 15.00
" extra.....	6.00	to 8.00	.....	to 10.00	10.00	to 12.00	8.00	to 10.00
" No. 1 and Lower gr.....	3.00	to 5.00	.....	to 6.00	4.00	to 10.00	4.00	to 6.00
Liberty, fancy.....	10.00	to 12.00	.....	to 12.00	12.00	to 15.00	8.00	to 12.00
" Ordinary.....	4.00	to 8.00	.....	to 5.00	5.00	to 12.00	4.00	to 6.00
Richmond, fancy.....	.....	to 10.00	.....	to 15.00	.....	to 10.00	0.00	to 20.00
" Ordinary.....	.....	to 10.00	.....	to 6.00	.....	to 16.00	.....	to 8.00
Golden Gate, fancy.....	8.00	to 10.00	.....	to 10.00	10.00	to 12.00	6.00	to 8.00
" Ordinary.....	4.00	to 6.00	.....	to 6.00	6.00	to 10.00	.....	to 10.00
Chatenay, fancy.....	.....	to 10.00	.....	to 10.00	.....	to 10.00	10.00	to 15.00
" Ordinary.....	.....	to 10.00	.....	to 6.00	.....	to 10.00	6.00	to 8.00
CARNATIONS								
Fancy.....	4.00	to 5.00	.....	to 4.00	3.00	to 5.00	3.00	to 5.00
Ordinary.....	2.00	to 3.00	.....	to 2.00	2.00	to 3.00	1.00	to 2.00
MISCELLANEOUS								
Cattleyas.....	.....	to 50.00	.....	to 50.00	.....	to 50.00	.....	to 50.00
Cypripediums.....	.....	to 25.00	.....	to 25.00	.....	to 25.00	.....	to 25.00
Lily of the Valley.....	3.00	to 4.00	4.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Violets.....	75	to 1.00	1.00	to 1.50	1.00	to 1.50	1.00	to 1.00
Tulips.....	3.00	to 4.00	2.00	to 3.00	3.00	to 5.00	3.00	to 5.00
Roman Hya.: Paper White Nar.....	1.00	to 4.00	2.00	to 3.00	.....	to 4.00	2.00	to 4.00
Daffodils, Trumpets.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Mignonette.....	.....	to 1.00	.....	to 4.00	2.00	to 4.00	2.00	to 4.00
Adiantum Cuneatum.....	.....	to 1.00	1.00	to 2.00	1.00	to 2.00	75	to 1.00
" Croweanum.....	.....	to 1.00	.....	to 1.25	1.25	to 1.50	1.25	to 1.50
Smilax.....	12.00	to 15.00	12.00	to 15.00	12.00	to 15.00	12.00	to 15.00
Asparagus Plumosus, strings.....	10	to 5.00	15.00	to 10.00	10.00	to 50.00	4.00	to 50.00
" & Sprenger, bunches.....	15	to 35.00	25.00	to 50.00	2.00	to 5.00	2.00	to 50.00

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Everything in Season.

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Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
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Weathered Co., 46 and 48 Marion St., New
York.
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GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for
Florists.
Mineralized Rubber Co., New York.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
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The Kervan Co.,
20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dilger, Mgr.
Fancy Ferns.

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HEATING APPARATUS.

Burnham Hitchings Pierson Co.,
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John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
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Gurney Heater Mfg. Co., 74 Franklin St.,
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Kroeschell Bros., 35 Erie St., Chicago.
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IMPORTING HOUSES.

R. M. Ward & Co., New York.
Plants and Bulbs.
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JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
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MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.
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MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
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NIKOTINE APHIS PUNK.
Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK.

Mt. Hissarlik Nurseries,
New Rochelle, N. Y.
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Cottage Gardens, Queens, N. Y.
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Chas. Black, Hightstown, N. Y.
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ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Julius Roehrs Co., Rutherford, N. J.
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Forest Nursery & Seed Co., McMinnville,
Tenn.

Forest Tree and Shrub Seeds.
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PAEONIES.

Chicago Carnation Co., Joliet, Ill.
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PATENTS.

Siggers & Siggers, Washington, D. C.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
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PLANTS, BEDDING.

J. C. Schmidt Co., Bristol, Pa.
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PLANTS DECORATIVE.

A. Leuthy & Co., Roslindale, Mass.
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R. & J. Farquhar & Co., Boston.
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PLANTS FORCING.

H. F. Michell Co., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston.
Spiraea Gladstone, Japonica, Lily of the
Valley.

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Joseph Breck & Sons, Boston.
Gladioli for Forcing.

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RETAIL FLORISTS.

Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.

Alex. McConnell, New York.
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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.
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Young & Nugent, New York.
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Z. D. Blackstone, 14 & H Sts., Washing-
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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A. Gude & Bro., 1214 F St.,
Washington, D. C.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.

August Rolker & Sons, 31 Barclay St.,
New York.

English Grown Roses.

Benj. Dorrance, Dorranceton, Pa.
Killarney and Richmond

E. H. Pye, Upper Nyack, N. Y.
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SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall Sq., Boston.

Cyclamen Seed.
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Thos. J. Grey & Co., 32 S. Market St.,
Boston.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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W. Atlee Burpee & Co., Philadelphia.

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Burnett Bros., 101 West St., New York
Seeds, Bulbs, and Fertilizers.
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J. M. Thorburn & Co.,
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H. F. Michell Co., 1018 Market St.,
Philadelphia, Pa.
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G. C. Watson, 1614 Ludlow St., Philadel-
phia.

Sweet Pea Christmas.
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Weeber & Don, 114 Chambers St., New
York.

Vegetable and Flower Seeds.
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Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds.

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
St., Boston.

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E. A. Beaven, Evergreen, Ala.
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STEAM TRAP.

E. Hippard, Youngstown, O.

VENTILATING APPARATUS.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
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John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.

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The Chicago Lifter.

J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

Weathered Co., 46 and 48 Marion St.,
New York.

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VERBENAS.

H. F. Michell Co., Philadelphia, Pa.
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ton.

George A. Sutherland Co., 34 Hawley St.,
Boston.

Welch Bros., 15 Province St., Boston.

Buffalo.

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Wm. F. Kastling, 383-87 Ellicott St., Buf-
falo, N. Y.

Chicago.

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J. A. Budlong, 37 Randolph St., Chicago.

E. H. Hunt, 76-78 Wabash Ave., Chicago.

Chas. W. McKellar, 51 Wabash Ave., Chicago.

Peter Reinberg, 51 Wabash Ave., Chicago.

A. L. Randall Co., 21 Randolph St., Chicago.

Welland & Risch, 59 Wabash Ave., Chicago.

Wietor Bros., 51 Wabash Ave., Chicago.

Vaughan & Sperry, 60 Wabash Ave., Chicago.

J. F. Winterson Co., 45, 47, 49 Wabash
Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.

Wm. Murphy, 128 E. 3d St.

Detroit.

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Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Dilger, mgr.

New York.

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Bonnot Bros., 55-57 West 26th St., New
York.

J. S. Fenrich, 48 W. 30th St., New York.

Ford Bros., 48 West 28th St., New York.

H. D. Proment, 57 W. 28th St., New York.

Alex. J. Guttman, 43 West 28th St.

E. C. Horan, 55 West 28th St., New York.

Philip F. Kessler, 55 W. 26th St., New
York.

Julius Lang, 53 West 30th St., New York.

A. H. Langjahr, 55 W. 28th St., New York.

James McManus, 59 W. 30th St., New York.

Chas. Millang, 50 West 29th St., New York.

Frank Millang, 55-57 W. 26th St., New
York.

A. Moltz, 55-57 W. 26th St., New York.

John J. Perkins, 115 W. 30th St., New York.

John I. Raynor, 49 W. 28th St., New York.

George Saltford, 46 W. 29th St., New York.

W. F. Sheridan, 39 W. 28th St., New York.

New York.

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A. L. Young & Co., 54 W. 28th St., New York.
John Young, 51 W. 28th St., New York.

Philadelphia.

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Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
Phila. Cut Flower Co., 1516-18 Sansom St., Philadelphia, Pa.

Pittsburg.

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Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
J. R. Murdoch & Co., 545 Liberty St., Pittsburg

New Offers in This Issue.

ANNOUNCEMENT.

Suzuki & Ida, 31 Barclay St., New York.
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CARNATIONS, ROBERT CRAIG.
Cottage Gardens Co., Queens, N. Y.
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CARNATIONS, WINSOR, WHITE ENCHANTRESS, HELEN M. GOULD.

The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
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FLOWER SEEDS.

H. A. Dreer, Philadelphia.
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FORCING STOCK, ROOTS, TUBERS, ETC.

F. W. O. Schmitz, Prince Bay, N. Y.
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GERANIUMS.

J. E. Felthousen, Schenectady, N. Y.
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GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin, N. Y.
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GREENHOUSES HEATING, VENTILATING, SUPPORTING.

D. Iliffe, Flower Market, Park St., Boston.
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ROSES, QUEEN BEATRICE.
F. H. Kramer, Washington, D. C.
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ROSES, RICHMOND.

The E. G. Hill Co., Richmond, Ind.
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ROSES, RICHMOND.

S. S. Pennock, Philadelphia.
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SEEDS.

J. M. Thorburn & Co., 36 Cortlandt St., New York.
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SPHAGNUM MOSS; CEDAR POLES.

H. R. Akers, Chatsworth, N. J.
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WELCOME TO CARNATIONISTS.

Welch Bros., 15 Province St., Boston.
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WELCOME TO CARNATIONISTS.

J. Newman & Sons, Corp., 51 Tremont St., Boston.
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WELCOME TO CARNATIONISTS.

Julius A. Zimm, 2 Beacon St., Boston.
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WELCOME TO CARNATIONISTS.

Edward McMulkin, 194 Boylston St., Boston.
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WELCOME TO CARNATIONISTS.

Houghton & Clark, 396 Boylston St., Boston.
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WELCOME TO CARNATIONISTS.

Thomas F. Galvin, 799 Boylston and 124 Tremont Sts., Boston.
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GREENHOUSES BUILDING AND PROJECTED.

Berlin, Ct.—C. M. Jarvis, one house.
Utica, N. Y.—Brant Bros., four houses.

Council Bluffs, Ia.—Oscar Herman, one house.

New Bedford, Mass.—Joseph S. Silva, one house.

Camden, Me.—George Glaetzel, one house 24x75.

Quidneck, R. I.—J. H. Cushing, one house, 20x112.

Toledo, O.—Krueger Bros., one house, 100x109.

Sistersville, W. Va.—Mrs. E. Huston, one house.

Independence, Kan.—W. R. Mattock, one house, 18x60.

Coatesville, Pa.—James Brown, Jr., one house, 28x104.

Paxton, Ill.—E. B. Morgan & Co., one house, 14x130.

New Castle, Pa.—W. H. Weinschenk, one house, 120x550.

Jersey City, N. J.—John Leach, two houses, each 30x125.

WANTS.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th Street, Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

FOR SALE.

Well established Florist business, 6000 feet glass, well stocked with carnations, violets, bedding plants, palms, etc. Splendid location on corner of two main avenues leading towards the best part of principal residential districts. Excellent home trade and good field for landscape gardening; no competition as yet. Store attached to greenhouse with electric light. Commodious house with modern improvements. Barn, shed, good water supply. Excellent opportunity for progressive florist. Reason for selling, wish to retire from business. Apply to F. G. MENSE, Glen Cove, L. I., N. Y.

WANTED—A first class orchid man to take charge. Address, stating all particulars, N. R. H., care Horticulture, 11 Hamilton Place, Boston.

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Going....

I am interested in a glass factory in Jersey. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted.

NOT IN THE TRUST.
Address

George C. Watson
1614 LUDLOW STREET Philadelphia, Penn.

Remember this factory is NOT in the TRUST and has a free foot

Victoria, B. C.—A. J. Woodward, four houses, 26x300 each.

Worcester, Mass.—H. F. A. Lange, one house 60 ft. long.

Knoxville, Tenn.—Frank Hoffman, two houses, 10x80; one house, 10x30.

The Cottage Gardens

Contain the finest assortment of selected specimen Evergreen, Deciduous Trees and Shrubs procurable, and its Landscape Department is at your service in arranging them. Price list ready now. Has tables of the best herbaceous plants, giving common and botanical names, height, color and season of bloom. Sent free. All inquiries cheerfully answered.

COTTAGE GARDENS CO., QUEENS L. I.

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, etc.

We are in a Special "PECKY CYPRESS" Position to Furnish

Everything in PINE and HETLOCK BUILDING LUMBER
WRITE FOR PRICES

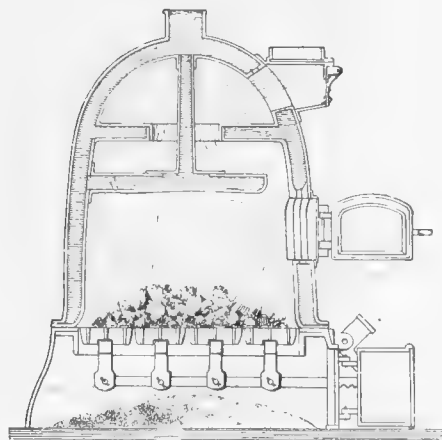
Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

ONE TYPE OF THE WEATHERED BOILER

The Old Stand-By — Introduced by
Thos. W. Weathered, 1859

The Same Outsidess
It Had
47 Years Ago



But New Insides
Have Made it More
Powerful

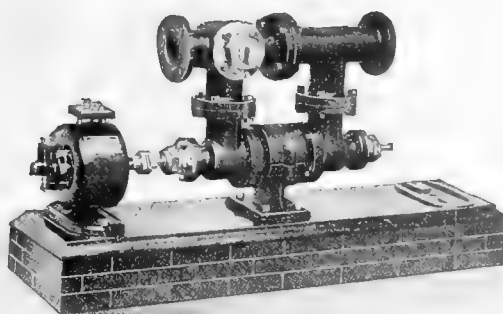
Just as durable as ever. Send for Catalog

WEATHERED COMPANY

Designers and Builders of Greenhouses
46 & 48 Marion Street, New York

YOU ARE INVITED!

The
HOLLY-CASTLE
Electric Circulator



The
Sensation of the
Season

The wide spread interest and curiosity concerning this remarkable appliance for comfort, convenience, certainty, and economy in greenhouse heating, leads us to extend an invitation to all attending the **Carnation Convention** at Boston to visit the Dickerman Greenhouses, T. F. Matthews, proprietor, at Dorchester, Mass., where the apparatus has been installed and see a demonstration of its working. A special car will start from Horticultural Hall, Boston, at 1.30 p. m., on Thursday, January 25, the second day of the Carnation Convention.

HOLLY-CASTLE CO., Engineers, 49 Federal Street, Boston, Mass.

Planing Mills.

There are many planing mills which turn out good work—in their line, but as a rule they know nothing of greenhouse construction.

We make it a special study—in fact we have manufactured nothing but greenhouse material for years and feel that we know something about it. Many of the large growers claim we know all about it.

If you have never used our material let us tell you about it—write to-day. Try it on your next house.

JOHN C. MONINGER CO.—Chicago

117 E. BLACKHAWK STREET



DANIEL ILIFFE

EXPERT GREENHOUSE HEATING,
VENTILATING AND SUPPORTING.

Best of References Furnished.

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Telephone Somerville, 367-4.

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FLOWER MARKET, PARK STREET,

Where Catalogues can be had on application.

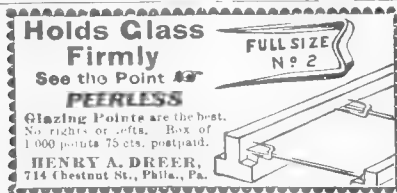
CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

In writing advertisers, mention Horticulture



**NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL.** For particulars address

J. John G. Esler, Saddle River, N.

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE
74 FRANKLIN ST. BOSTON



MEND CRACKED GLASS IMMEDIATELY AND PERMANENTLY
For sale by jobbers. Box of 150 for \$1.00 or address
A. KLOKNER, Wauwatosa, Wis.

Standard Flower .. POTS

If your greenhouses are within 500 miles of
the Capital, write us, we can save you money
W. H. ERNEST,
28th and M Streets WASHINGTON, D. C.

ROBERT J. DYSART,
Public Accountant and Auditor

Simple methods of correct accounting
especially adapted for florists' use.

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Merchants Bank Building

28 STATE ST., - BOSTON
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NEW GREEN HOUSE CATALOGUE
JUST ISSUED BY
King Construction Co.

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SEND FOR CATALOGUE OF
**SCOLLAY HOT WATER
and STEAM BOILERS**
JOHN A. SCOLLAY

73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

Greenhouse Material

Ask for our Special Catalogue No. 554 describing
Boiler Tubes, Boilers, Tubes, etc., Lumber and Sup-
plies of every kind from the Fifty Million Dollar St.
Louis World's Fair.

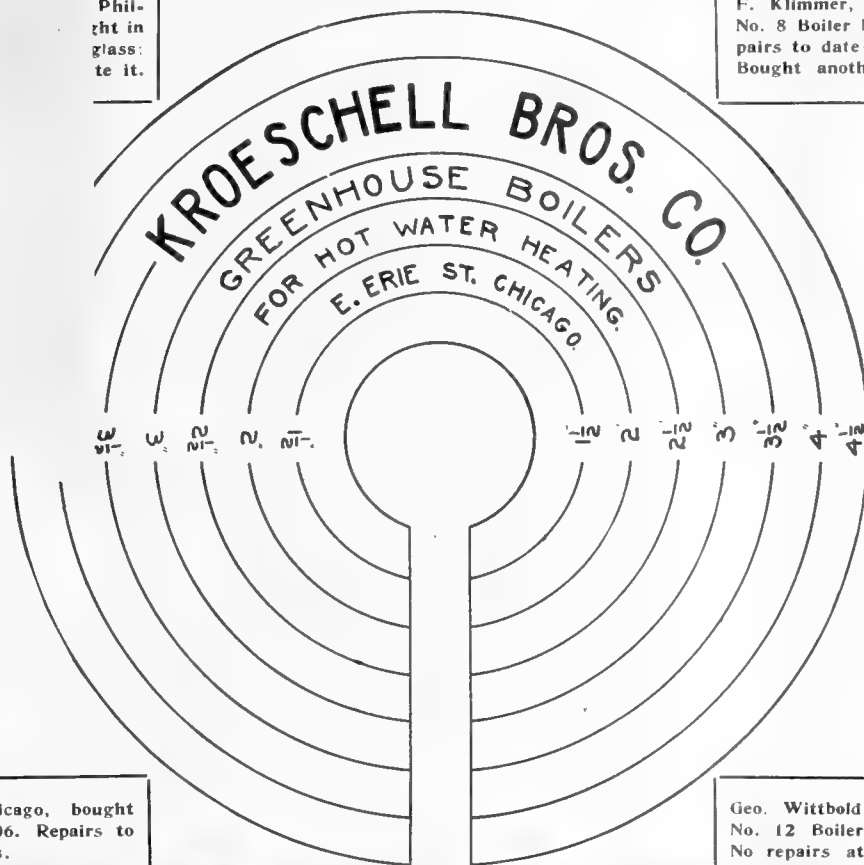
CHICAGO HOUSE WRECKING CO.
35th and Iron Sts. CHICAGO

John Hakett, Philadelphia, has No. 1893 Carries 1,500 feet mo.

Phil-
ght in
glass:
te it.

F. Klimmer, Waldheim, Ill., has No. 8 Boiler bought in 1895. Repairs to date—new flues in 1903. Bought another boiler in 1904.

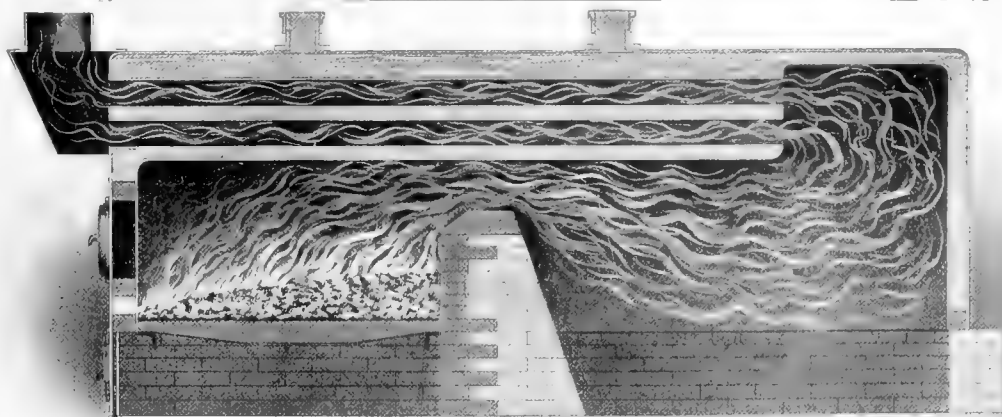
This Shows our Measure for Carnation Blooms



Send a 2-cent Stamp for One

John Fuhman, Chicago, bought No. 4 Boiler in 1906. Repairs to date—two new flues.

Geo. Wittbold Co., Chicago, has No. 12 Boiler bought in 1895. No repairs at all in ten years.



THIS IS OUR BOILER

We have sold it in every state of the Union and more florists use it than any other make. Don't buy a Boiler until you have had our catalogue. Sent free on request.

N. ZWEIFEL, No. Milwaukee, Wis., writes:—"I have 4 houses each 28x200 feet, with a total of 27,000 sq. ft. of glass. I can get all the pipes warm in thirty minutes with one of your No. 13 Boilers, and it is easy firing."

GRANT NEWPORT, Cedar Rapids, Iowa, writes:—"I bought a No. 2 Boiler in 1902. Takes care of 7,000 sq. ft. of glass; would take care of 2,000 more. I have had a cast-iron boiler, but it broke down twice in four years always in the coldest weather. It broke down Dec 29, 1904, and I lost all my stock in consequence. I have now two No. 2 Kroeschell Boilers, and do not worry about their breaking down."

DAMM BROS., Chicago, write:—"Bought a No. 12 Boiler in 1893. Only repairs in 12 years one set new tubes. Replaced four small boilers and saves \$100.00 in coal each season." Carries 24,000 ft. of glass; 1,000 ft. more than our rating.

WM. GEENEN, Kimberly, Wis., writes:—"I bought a No. 3 Boiler in 1901. We had a corrugated cast-iron fire box boiler and a sectional cast-iron boiler before we bought yours in 1901. The cost of heating with this boiler is **one-half less than it was with my cast-iron boilers**. Your No. 8 Boiler, which we bought recently of you, is not being run to its capacity."

KROESCHELL BROS. CO. 35 E. Erie St., Chicago.



THIS CARNATION BUSINESS

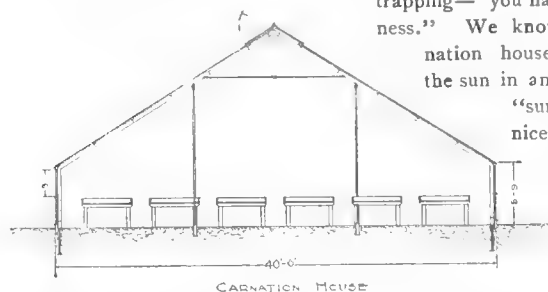
**Is a pretty ticklish proposition if
you don't know its ins and outs**

One of its **ins**, is the house you try to grow them in: one of the **outs**, is the cost of every square inch. of shade. If you don't want a shade trap, then why don't you set a trap for sunshine? Now setting a sunshine trap is just like any other

trapping—"you have to know your business." We know how to build a car-

nation house—know how to keep the sun in and the shade out. This

"sunshine talk" is all very nice but there are a hundred and one other things that go into a house you buy of us. Take a hundred and one things, half a hundred years of building



skill and the best of materials put together in the best way—and you get an idea of the B. H. P. Co. houses. Send for catalog J-G.

One of the best traps we have set is that of W. W. Edgars' house at Waverley, Mass. If you want to see an ideal house, you better take a run out there.

BURNHAM HITCHINGS PIERSON CO.

Greenhouse
Designers and
Manufacturers

1133 Broadway, Cor. 26th St., N. Y. Boston Branch: 819 Tremont Building



HORTICULTURE

Vol. III. JANUARY 27, 1906 No. 4



AMERICAN CARNATION SOCIETY EXHIBITION
Horticultural Hall, Boston

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

SEE OUR NEW CARNATIONS AT THE CONVENTION

Winsor, White Enchantress, and Helen M. Gould

This is one way to judge carnations. A better and more convincing way is to see them growing. There is nothing about any of these varieties that we wish to conceal; therefore, we cordially invite all carnation growers to pay us a visit. Come at any time.

WINSOR.

This is sure to prove a winner. Nothing approaches it in color, which is a clear silvery pink—a shade between Enchantress and Mrs. Thos. W. Lawson—and much more beautiful than either. In fact, it is just the shade that we have all been trying to get. The color will make it sell in any market. The stem is just right. The flowers are considerably larger than Lawson and much better shaped. As a grower it has everything that can be desired. So far we have not seen any large-flowering variety quite so free as Winsor.

WHITE ENCHANTRESS.

This is a pure white sport of Enchantress, which is at once the most popular and most profitable carnation grown to-day; and this on account of its size and stem and freedom with which it blooms. White Enchantress is identical in every respect but color. Those who desire quality as well as quantity will find it in White Enchantress.

HELEN M. GOULD.

This is a beautiful variegated sport of Enchantress. The ground color is a lovely shade of clear pink, the variegation carmine, making an exquisite combination of colors, besides being something distinctly new. At a short distance the variegation does not show at all, the general effect being a beautiful shade of dark pink. Growth, habit, size, and stem are the same as Enchantress.

We have fine stocks, from which we can deliver healthy cuttings of Variegated Lawson, White Lawson, Red Lawson, Enchantress, Mrs. M. A. Patten, Lady Bountiful, etc.

Our Variegated Lawson is all that we claimed for it last season, and is giving the fullest satisfaction everywhere—the best in the variegated class.

Come and inspect our stock of new and standard sorts for yourselves.

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

Pink Patten

Brighter than Lawson

First Class Certificate at Boston and Tarrytown

Mikado

Strictly Fancy

First Class Certificate American Carnation Society at Chicago

PRICES

Per 100, \$10.00; per 1000, \$80.00; 250 at 1000 rate.

Send for Descriptive Circular

Patten & Co., Tewksbury, Mass.

HANNAH HOBART

The Pride of California. The Grandest of Pink Carnations

A shade deeper than Lawson, blooms four to four and one half inches across, full and regular. Stems long and strong. Does not burst the calyx. Growth free and easy. A prolific bloomer. Its flowers wholesale for a higher price than any other carnation in the San Francisco market. (See illustration and full description in Horticulture of July 1, 1905.) Orders for rooted cuttings booked now and filled in rotation beginning January 1, 1906, at

\$3.00 per 12; \$15.00 per 100; \$120.00 per 1000

JOHN H. SIEVERS & CO.

1251 Chestnut Street SAN FRANCISCO, CAL.

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MY MARYLAND

ANNOUNCEMENT TO THE TRADE:

We, the H. Weber & Sons Co. of Oakland, Md., respectfully announce that The E. G. Hill Co. of Richmond, Ind., have withdrawn from the contract made with us last Spring whereby they would have jointly with us, disseminated our new white carnation, My Maryland.

The variety has been on trial at Richmond, (3,000 plants), Brooklyn, (300 plants), Philadelphia, (1,000 plants) and Toronto, (1,000 plants).

Reports from the first two named places characterize the variety as being practically worthless, while from Toronto and Philadelphia favorable reports indicate that the variety is beating out our claims for it.

Our own stock at Oakland is in elegant shape. An ex-

tremely wet Summer necessitated the holding of stock in a semi dormant condition after being housed Aug. 15th to Sept. 1st, thus making stock too late for the Fall shows. Since Dec. 1st we have been cutting grand blooms, and to prove our claims for the variety we invite all interested to come to Oakland and look it over. While it is a source of regret to us that the variety has not proven satisfactory in all places tried, we are satisfied that it will prove our claims for it in at least some places besides our own.

We therefore announce that we will disseminate My Maryland as per our advertisements, but before shipping any stock we give to each and every one the right to cancel all or any portion of their orders.

JESSICA, we believe will succeed everywhere. It is even better than last year. As a red and white it has no competitor. Stock ready now. Price for both varieties \$2.50 per doz., \$12.00 per 100, \$100.00 per 1000.

THE H. WEBER & SONS CO., = = Oakland, Md.

"GLENDALE"

New Variegated Carnation

Markings similar to Mrs. G. M. Bradt. A very large flower on strong stems, extremely free and healthy. A non-burster. A fancy of the highest type.

Sample blooms expressed at \$1.00 per dozen. All our carnations have been rather late this season as elsewhere. That is the reason we have not been advertising "GLENDALE" as well as other varieties more extensively.

Rooted Cuttings \$12.00 per 100: \$100.00 per 1000.

Introducers { Chicago Carnation Co., Joliet, Ill.
W. J. & M. S. Vesey, Ft. Wayne, Ind.

CARNATIONS

(Rooted Cuttings and Pot Plants.)

Lawson, Enchantress, Lady Bountiful, White Lawson, Fred Burki, Cardinal, Fiancee, and other standard varieties. Also the new scarlet JOHN E. HAINES and the new white MY MARYLAND. Send for price list.

CHRYSANTHEMUMS

(Rooted Cuttings)

Alice Byron, Mrs. McArthur, Lady Harriett, Maud Dean, Marie Liger, Lavender Queen, Robt. Halliday, Col. Appleton, J. C. Salter, \$2.00 per 100; \$15.00 per 1000. White Eaton, Chadwick, Convention Hall, yellow Chadwick, \$2.50 per 100; \$20.00 per 1000. Also a number of other standard varieties. Send for list.

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Enchantress	"	20 1-2	"	"	"	"	"	"	"
Mrs. Patten	"	15 6 10	"	"	"	"	"	"	"
Lady Bountiful	"	9 2-10	"	"	"	"	"	"	"

We shall keep open house as usual and "The latch string will be a 'hangin' out." Come and see Craig and some other good things which we have up our sleeve. The only place where the genuine Carnation Juice can be found.

C. W. WARD - - Queens, L. I.

CARNATIONS

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Cardinal	6 00.....	50 00
Patten	3 00.....	25 00
Enchantress....	2 50.....	25 00
Queen	2 00.....	15 00
Maceo.....	2 00.....	15 00
Lawson	2 00.....	15 00
Fair Maid	2 00.....	15 00
Challenger	2 00.....	15 00
Prosperity.....	2 00.....	15 00

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QUEEN and LAWSON	2.50	20.00

Spring delivery
E. H. PYE, FLORIST
UPPER NYACK, N. Y.

"Aristocrat"

Announcement.

We herewith confirm the reports, so far as our purchasing the above carnation is concerned. We intend to disseminate same January 1st, 1907. We do not think it necessary at this time to commence boasting of its good qualities and commercial value that has been proven and will be proven again to your satisfaction.

We are now soliciting orders for January delivery and while we do not make a specialty of booking orders subject to cancellation we believe that to cancel is everyones right, if a variety does not live up to its reputation and we respect it if done right and honorably. Orders are already coming in heavily and we strongly advise you placing orders immediately as January bookings will soon be closed.

"Aristocrat" is O. K. and you will not be able to help yourself from buying it later, so place order now as we shall not over book ourselves on it, as we must make good and that is one of our reasons for securing it.

Color: brighter than Lawson, a little brighter shade. Calyx; does not burst. Habit of growth; taller than Enchantress, more wiry and more free. Produces cuttings freely which root easily. Has no disease of any description. Size, as large as Enchantress but form more perfect than any other carnation.

Rooted Cuttings \$12.00 per 100; \$100.00 per 1,000; 5,000 \$450.00; 10,000 \$800.00.

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Achimenes

When properly treated the achimenes make showy specimens for the greenhouse or conservatory. They may either be grown in pots, pans, or baskets. The accompanying illustration is a basket, the plants being allowed to grow naturally. The achimenes belongs to the natural order of Gesneraceæ and is allied to the gloxinia. The tubers should be started in a brisk bottom heat, a stove house suiting them well until they commence to flower, when if moved to a cool greenhouse they will continue to blossom for several months.

In starting old plants they should be shaken out of the old compost and the tubers placed in flats of light, sandy soil. They should be watered sparingly at first until growth appears when a greater quantity may be given. To secure a succession of flowers it is well to start them in batches from January until March. After the young growths have reached the length of an inch or so they should be potted into their flowering pots or baskets, several being put in one pot; say, seven tubers to a six-inch pot, increasing the number according to the size of the pot or basket used. A good fibrous loam with a liberal mixture of leafmold and sand and a little decayed manure is a good compost. The pots or baskets should be placed as near to the glass as possible to get the best growth taking care to shade them from bright sunshine.

After flowering commences they may be fed occasionally with liquid manure. If grown in a dry atmosphere they are liable to be attacked with thrips and red spider and they should have occasional syringing to prevent these pests from getting a hold. After the



plants have done flowering they should be placed in a light airy place and dried off gradually until the shoots are thoroughly ripened when these may be cut off and the pots containing the tubers placed on their sides and laid away somewhere where the temperature will not fall below 50 degrees F. No water should be given them all the time they are resting.

There are many good varieties of achimenes and several varieties grown together in one basket, taking care to have the different colors blending, make very showy specimens and are usually much admired.

W. H. Waite

Dracaenas

Having read Mr. McIntosh's article in HORTICULTURE, Jan. 6th, on the above subject, I would like to make a few remarks regarding my experience with dracaenas.

With reference to the superior qualities of *Dracaena* Lord Wolesley over *D. terminalis* for the private gardener or for exhibition purposes there can be little doubt, but florists as a rule still hang to the old variety and the reason they advance is that *D. terminalis* will stand more rough usage than the newer variety on account of its being tougher in the leaf tissue.

As to the propagation of dracaenas; while the root and stem cutting method is the best for increasing stock or if only small plants are wanted, yet for 6 to 8 in. pots such as florists use generally I am certain that mossing, or placing pots on the top of old plants, is still the better method for getting good exhibition specimens, especially with large-leaved varieties, such as *D. Youngii*, *Baptistii*, *Andersonii*, *Shephardii*, etc. To cut off the tops of such varieties and insert in a cutting pot means a great check and being checked at this stage causes the young plants to make small leaves when they begin to grow after rooting, a con-

dition which all good growers try to avoid. Even after the roots are through the moss or first pot another larger pot should be put on with a mixture of soil such as the plants are to be grown on in; then when the roots are well through this the old plants should gradually be dried off for a couple of weeks when the tops may be cut off without any fear of a check. This may appear to be a somewhat slow process, but when we consider that a good-sized specimen can be started in this way, it can readily be seen what a handicap there is on the cutting plan.

Mr. McIntosh recommends copious syringing of dracaenas, whereas the best specimens the writer has grown were set apart specially by themselves to be out of the way of the syringing, because in my opinion too much water lodges at the base of the petiole, causing the plants in time to lose their bottom leaves. For exhibition plants I would recommend wiping over with a sponge once a month, and keeping plenty of moisture around the plants. If any syringing is done I think it should be a very light spraying, using as little water as possible so that it does not run down and find lodgement at the base of the leaves.

James Stuart

Nature's Teaching

The question whether nature is the best tutor in Horticulture is receiving some attention from horticulturists in Europe.

Do cacti demand the dry arid atmosphere such as they are subjected to in their Mexican home for a good part of the year, or would they thrive in a moist genial atmosphere, such as most plants love? We have had considerable difficulty trying to grow certain species of cactus in a house especially built for them, where nearly as possible nature's example was followed and have been surprised and somewhat mortified to see in the window of an ordinary dwelling house the same species in splendid health. The lady whose property and charge they were, when questioned regarding their treatment, could only say that they received no particular attention and were watered perhaps every day summer and winter.

The question which occurs to us is: Do these plants really need the condition found in nature? At the present time certain orchidists in England have got ahead of their brethren and are demonstrating that although the majority of orchids have pseudo-bulbs that must not be taken as an indication that the plants must have a period of rest, which generally means a shrivelling of the pseudo-bulb and consequently a loss of vigor to the plant. "Keep them going" is the motto of this school who also claim that odontoglossums are more healthy if given a warmer winter treatment than is generally considered necessary or advisable.

Hybridization it is claimed has taught the observant cultivator that a seedling was more vigorous and developed quicker under moister and warmer conditions than was considered good for its parents. Whether these conditions in winter would help odontoglossums to stand the American summer better is debatable. Odontoglossums do not like anything approaching a dry atmosphere and should not be allowed to become very dry at the roots. A dry atmosphere is conducive to thrips which is one of the worst insect pests the orchid grower can be troubled with.

The writer has had the charge of a collection of orchids grown for botanical purposes with most of which very little and in many cases no data as to the natural conditions under which they are found, is furnished and, as they are undescribed species, no data is obtainable. After a good deal of experimental treatment I have demonstrated to my own satisfaction that a relative humidity of from 70—80 degrees at all seasons is desirable and that even when a plant is not actually growing these conditions are helpful except in the case of a few deciduous kinds such as *calanthes*, *liparis*, etc. Moisture and warmth do not as a rule cause the plants to make premature growth. In some cases the period of rest is short, but as a rule most growth commences in the lengthening of the days of February and March, a fact which is somewhat remarkable in a house containing five hundred or more species from all parts of the world.

The old idea of punishing an orchid to induce flowers has become old-fashioned and is little practised. It was thought that *Odontoglossum citrosmum* would not develop flowers unless water was withheld from the time the young growth appeared until the flower spike was fairly on the way. It has been found that this is imposing a task upon the plant which is altogether unnecessary.

It was claimed that unless *dendrobiums* were kept cool and dry in winter the flower buds would not develop. Ripening of the pseudo-bulb is necessary but sufficient light can be given for the purpose and the proper percentage of moisture maintained to prevent shrivelling without injury to the flowers. Atmospheric moisture is of far greater importance than temperature, especially during the American winter, when a large amount of fire heat is necessary.

James Hutchinson

North Easton, Mass.

Pruning Ornamentals

In pruning ornamental shrubs there are only two or three things to bear in mind. First, the time of pruning depends on the wood upon which the flowers are borne. Most early bloomers have their buds well developed before winter sets in and so when they blossom in the spring the flowers are carried upon the mature wood of a year or more's growth. Therefore if this class of plants is pruned in the winter it will mean a sacrifice of all or at least a large part of the bloom for the ensuing year. The only way is to postpone pruning until after blossoming.

But the shrubs that bear their flowers on the new wood formed the same year, summer or fall flowering plants as a rule, can be pruned at any time during the winter with no danger of destroying the crop.

The aim of pruning is to supply young, healthy, vigorous bearing shoots in abundance, and to develop a beautiful shrub. To accomplish this the old and dead wood is cut out, and that which is left if it tends to grow rankly is slightly shortened in to introduce a bushy habit of growth. Study the natural habit of the plant and aim to follow it as far as possible. Above all do not shear it off evenly all around into cone shapes, round tops, or other symmetrical forms, unless it is part of the landscape scheme.

A rightly pruned shrub requires little attention; shortening in the new wood, summer pinching of excessive growths, and thinning the centre is practically the whole story.

After winter is over, but before the buds swell; the rose bushes must be attended to. Cut back strong shoots less than weak ones, for severe pruning invigorates and this will give the less progressive a chance to catch up. All must be cut back to five or six buds, the dead wood removed, and the head kept open.

In the case of trees pruning is much more important than it is usually credited with. While May is the best month for this work, any time after the leaves are out will do. This is better than winter pruning as the wounds heal over much more quickly.

Young trees need to be trained from the start. When first set out they should be cut back to nine or ten feet for a tree with a two and one-half inch trunk. Especially is this true of the elm, maple, oak, and loose irregular headed trees in general. It does not apply to pines, firs and the like, whose chief beauty is in their sturdy uprightness. Take the maple for example. To get a round symmetrical head it is necessary to keep the leader cut back. This induces the branches to strive for that position and as they get the nourishment formerly going to the leader the tree gradually assumes a handsome oval shape, instead of the long, lank, ungainly appearance it would otherwise have had, a sight

altogether too common in neglected trees set out along roads and in parks. Cross branches, superfluous limbs, and all unnecessary wood whether limb, branch, or twig must be cut out to prevent retardation of the desirable parts.

Old trees cannot be cut into in too wholesale a manner. If a lot of pruning is needed it is much better to do a little each year for several years rather than do a lot at once. As a rule two or three medium-sized branches is enough to cut off at once. More than this unbalances the relation between the roots and foliage and causes the formation of water sprouts, suckers, and sometimes reduces the foliage so much that the tree lacks the ability to draw up the sap. But all crossing, interfering, dead or dying branches, lateral trunk shoots, dead stumps and the like, should be removed.

In removing large limbs saw close to the trunk with a cut nearly parallel to it. This will heal over quicker, notwithstanding the larger area, than one made at right angles to the limb. Avoid sawing so far from the trunk that a stump is left. Not only is it unsightly, but it is a danger point for infection.

All large wounds should be covered with zinc, tin, or preferably painted with coal tar, a by-product of gas works, or a coat of lead paint. Cavities or old wounds which are not healing properly should be opened and cut smoothly back to sound wood, removing all decaying matter, and then repainted. Deep cavities should be filled with cement or a painted plug. The paint keeps out the spores of disease and protects from insect attacks.

Hollow trees cannot be remedied.

R. Z. Adams

Do Varieties Deteriorate?

This is one of the oldest of garden questions.

From the days of Pliny Secundus and Virgil, at any rate, this problem has exercised the minds of breeders and cultivators in both hemispheres, and so far as actual proof goes we seem as far from a satisfactory answer as ever. At present the general belief is that seedling varieties of the best do deteriorate or wear out sooner or later, as propagated or increased by vegetative methods. In other words, any plants that are increased by division, including grafting and budding, layers or cuttings, or by dividing offsets or tubers, etc., eventually fail, and must be replaced by new selections raised from seeds. This much is believed by the majority, but, on the other hand, a minority persists in maintaining, on the contrary, that varieties of fruit, vegetables and flowers do not deteriorate or wear out, unless they are neglected or become superseded by new kinds, or it may be by old kinds to which new names are affixed from time to time. In the case of the potato especially, deterioration may follow on bad soils, or when bad methods of cultivation are adopted, such as planting too thickly together, the use of too much manure, the growth of the same variety too long on the same soil, especially if it be originally unsuitable, or by the continual use of small and otherwise inferior tubers as "sets" for planting. If it be true that selecting the finest of seed leads to a marked improvement in the succeeding crop, it would not be unreasonable to infer that the worst of seeds would produce an opposite result. As a matter of fact this much is known to be true, and there can be but little doubt that the potato has suffered from the practice of selling or eating

the "ware" or best potatoes, and reserving the smallest or worst produce for "sets" year after year. These methods may not be those practised today by the best growers, but they have long been the rule with small cultivators, and in cases where the soil was also unsuitable the results have been disastrous in the extreme. That deterioration comes to all varieties and is in some cases attributed to old age. The argument is that when a plant or tree is increased any other way than by seeds, there is no new life, the offspring being merely a "chip of the same block," so to say. Thus, a potato set or tuber is not a new plant, but merely a small portion of the original variety. Hence it has been inferred that when any particular variety fails from senility or old age all its descendants fail, or should fail at same time. The common Lombardy poplar has been cited as an instance of this universal failure taking place all over Europe and elsewhere. It is simply a male variety, and has constantly been increased from cuttings or layers, that is to say, from detached bits of the parent tree or its descendants.

If it is true this tree is failing in health and vigor everywhere alike, it certainly looks as if there is something more than mere coincidence or conjecture in the matter. A similar thing has occurred in the case of hardy bamboos in British gardens. Several kinds have flowered and died within the past three years, and it has been argued that the reason of their blooming and dying simultaneously was due to their having been divisions off what originally was one solitary individual plant. In both cases so little is known either historically, or physiologically, of the poplar and the bamboo alluded to, that no rule or law can be adduced from their behavior under cultivation.

After all, the main question as to whether varieties wear out or die out altogether does not so much matter to practical breeders and cultivators, since so soon as their produce falls below a profitable standard they will be supplanted by other and newer kinds. Indeed there are many instances of new introductions and the booming thereof having actually led to the neglect and abandonment of older kinds. The race for novelty is so great that the main question of well-tried quality and productiveness is now and then forgotten in the chase.

H. R. Gilbert

Laelio Cattleya Erotion and Cattleya x Lancastriense

In last week's issue of HORTICULTURE the descriptions of the above two new orchids were unfortunately transposed, and, as their registration correctly is a matter of importance, the writer wishes to make the correction himself and publicly for the error began with him by incorrectly labelling the photographs sent.

Properly the record should read for Laelio-Cattleya x Erotion—Cattleya Walkeriana x Laelia glauca and for Cattleya x Lancastriense—C. labiata x C. velutina. The above is respectfully submitted to editor and readers of HORTICULTURE.

E. Cooper

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager.

Address
inquiries
to our office

Our readers are cordially invited to send questions upon which information is sought and we shall be glad to refer such to competent correspondents for investigation and answer. Our corps of correspondents is large and among them are those well able to reply to inquiries on any subject concerning the regular practice of horticulture. Several writers for HORTICULTURE have complained of the number of direct inquiries that are sent to them by our readers and that the demand made upon their time in replying courteously to these letters is a serious burden. We would respectfully ask our readers to do us the favor to forward such inquiries to the office of the paper in all cases. They will have prompt attention and all our readers will get the benefit of the information elicited, as they should.

Hasty
conclusions
and cold facts

It is a grievous thing to purchase a novelty in good faith and after having grown it to find it worthless. To this extent we agree with Mr. Fisher in his remarks before the Gardeners' and Florists' Club of Boston. We dislike to believe, however, that wilful deceptions are so frequent as he seems to think. We are all human and it is a natural trait to see in our own product, whether plants or children, a superiority to which all others are blind. Hence exaggerations which in the cold light of later tests prove to have been practical misrepresentations which their author may deeply regret while his conscience may yet hold him blameless. Unquestionably

"Facts are chucks, that wanna ding,
An' downa be disputed."

but the apparent facts of today are sometimes the fallacies of tomorrow and thus it will always be so long as men are human. On the other hand, how apt we are, almost unconsciously at times, to color our conception of a novelty with our estimate of its owner, as though our like or dislike of the man could affect the desirability of his goods. It becomes easy to suspect faults in those against whom we feel the prejudice of race, environ-

ment or business rivalry and equally easy to find superior excellence where the interests of a friend are concerned.

The new
schedule of the
Mass. Horticultural
Society

The prize schedule of the Massachusetts Horticultural Society, just received, shows a refreshing departure from the somewhat antiquated methods and obsolete lists which have so long interfered with the management of the exhibitions of this great society on modern lines. The changes are not too radical and, it is to be presumed, are but the precursors of further movement in the same direction as fast as their efficacy is demonstrated. To so conduct horticultural exhibitions that rivalries on technical points shall be encouraged and competing experts put on their mettle and at the same time bring out the desired artistic expression and spectacular effect which will ensure public support and remunerative results is a problem the magnitude of which is fully appreciated only by those on whom the responsibility of its solution has been placed. Because the Massachusetts Horticultural Society is wealthy and is not obliged to depend on the exhibition receipts for the wherewithal needed to pay the prizes is no reason why "safe and sane" business methods should not prevail in the management of these affairs. There are abundant ways in which the objects of the society as set forth in its articles of incorporation—"for the purpose of encouraging and improving the science and practice of horticulture, and promoting the amelioration of various species of trees, fruits, plants, and vegetables, and the introduction of new species and varieties"—may be better promoted, than by the distribution of hundreds of dollars annually in prizes which neither demonstrate or advance the science of horticulture nor bring out anything that the public care to spend a penny to see. The society is to be congratulated on the onward step now made.

Our Colored Supplements

The beautiful colored supplements sent out with our issues of December 16 and January 20 have been so well received by our subscribers that we have made arrangements for a regular series of these plates to be issued about twice a month. Although this involves a very material addition to the cost of publication it is not our purpose to make any advance in subscription or advertising rates. We would, however, call upon our readers to recognize our enterprise by promptly sending in their dollar for the coming year's subscription, to ask their friends to do the same, to make use of our columns when they have anything to sell and to patronize our advertisers at all times when they need anything offered in our advertising columns. With this sort of encouragement forthcoming we shall not hesitate to add other new features as fast as the support given us warrants it. The next colored plate will be a group of new varieties of tuberous begonia. As the edition will be limited, non-subscribers should send in their names at once with \$1.00 for the year's subscription.

AFTER ADJOURNMENT.

The Brooklyn Eagle of Jan. 17 has a yarn about an emerald green carnation which a florist in Far Rockaway has "succeeded in cultivating." We supposed that all newspapers of any intelligence had "gotten on" to this humbug. The carnation society might do worse than to officially record its condemnation of this atrocious annually-recurring libel on the flower to the interests of which their organization is consecrated.

The F. R. Pierson Company has adopted a plan for labelling each bench of carnations which is worthy of being copied by large establishments generally where an entire bench or more is given to a single variety. The wooden cross-bars to which the wires are attached at the end of each bench are painted a dark green and the name of the variety is inscribed thereon in gold letters by a handy employe. It is a great convenience for visitors and saves the answering of innumerable questions as well.

WHOLESOME CHESTNUTS.

Sow lettuce for early use. Sow lobelia, forget-me-not, myosotis and petunia for pot plants.

Keep on propagating until you are satisfied you have rooted a sufficient number of everything needed, but make sure; faulty guesses are poor consolers.

Get your melon frames in serviceable shape to be ready for immediate use when needed. Paint sashes and all woodwork.

Make all the stakes that may be required during the year; tie them up in bundles, each size in a separate bundle.

If you haven't already given your men a holiday, tell them now they can have one, if not more. They will come back feeling good, and you will feel better, too.

Don't try to rush tulips; if you do you will have but little for your trouble.

In packing, don't be deceived by the weather; rather aim at cheating the weather that may be, than taking any stock in the weather that is.

Now is a good time to wash fruit and other trees with limoid for San Jose scale. The preparation can be bought ready mixed, but it is better if applied hot.

On all likely days give air to everything in frames out doors, and if the weather permits, remove all decayed leaves and vegetable matter from the living.

It is thought better not to prune maple trees in winter.

Prune all flowering shrubs, but don't shear their tops to make them look like umbrellas; better just cut away the wood that is weak and not required, and leave the wood that will flower. That is the legitimate intention in pruning, but alas! what do we often see!

BEGONIA GLOIRE DE LORRAINE.

This illustration shows an average plant as grown for the Christmas trade, in a six-inch pot by Samuel Murray, Kansas City, Mo. Mr. Murray found a prodigious demand for



these at the holidays. At the Kansas City Flower Show he staged a splendid exhibit of specimen Lorraines, giving evidence of high professional skill. The group was one of the notable features of the show.

PRESIDENT BUTTERFIELD.

Much as Rhode Island loves Massachusetts, it is doubtful if the love is ardent enough to ungrudgingly allow Massachusetts to entice her educators away from her. However, be that as it may, President Kenyon L. Butterfield of the Rhode Island College of Agriculture and Mechanic Arts has been elected president of the Massachusetts College of Agriculture at Amherst. Mr. Butterfield during the time he has been at the head of the college at Kingston impressed those most interested as a man exceedingly well fitted for the position, and though they are pleased that he sees in the change prospects of more extended usefulness and a wider scope for his recognized abilities, they nevertheless feel that the agricultural interests of the State would be greatly benefited by his remaining in the State, and for that reason, as well as other personal reasons, much regret is expressed at his decision to become president of the Massachusetts College. But Rhode Island's loss is Massachusetts' gain.

THEY MADE AN ERROR.

Certain recent publications have reported a case of bankruptcy as being that of L. Menand, the Menand florist. This, we are informed, is an error. The bankruptcy proceeding mentioned was taken by H. L. Menand, who was recently engaged in the florist supply business on William street, in the city of Albany.

Mr. L. Menand is a citizen of considerable means, and has been engaged in a lucrative business for a great many years, and is far from being in the position of a bankrupt.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

OBITUARY.

William North Shedaker, son of the Hon. B. D. Shedaker, Edgewater Park, N. J., the well known asparagus grower, died on the 17th inst.

We are indebted to Howard Earl, manager for W. Atlee Burpee & Co., for the following note on the late Paynter Frame who passed away at his home Harbeson, Del., on the 18th inst, aged 80 years.

"The Hon. Paynter Frame was one of Delaware's leading citizens and was an active figure in the politics of that state for over 50 years, serving three terms in the state legislature, and was widely known as the king of water melon growers. Mammoth Ironclad, Fordhook Early, Mammoth Santiago, and The Delaware, were among the varieties raised by him and introduced by Burpee. He also raised Burpee's Melrose and Golden Eagle musk melons. Mr. Frame was one of the most conscientious of men and was possessed of very pleasing manners. If I were not so busy today I could tell you a whole lot more about this grand old man."

The death of Joseph A. Budlong on Sunday morning, January 14, removes from the horticultural arena a figure that has been identified with its interests for many years and has contributed largely to its development in the west.

Mr. Budlong was born in Cranston, R. I., March 17, 1841, and on February 1, 1866, was married to Miss Teresa Smith of Brooklyn, N. Y., who with two children, Albert H. and Mrs. Phil Schupp, survives him.

Mr. Budlong was a New Englander of the old school, genial, resourceful, kind-hearted, upright in all his dealings. His devotion to his childhood's home was shown in his annual pilgrimage thereto on his bicycle each summer, a distance of 1,150 miles. It was while riding his wheel at the corner of Foster and Robie streets on Saturday, January 13, that he met with the accident that caused his death.

In early life he was engaged in the market gardening and pickle business with his brother Lyman A., but some twenty years ago he entered into the growing of cut flowers, and the large range of glass covering an entire square and the wholesale store in the downtown district testify to his success.

He retired from active business life a few years ago, since which time the greenhouses have been in charge of his son and the store in charge of his son-in-law. The business will be continued by the estate.

PERSONAL.

Jno. McIntyre, late with H. H. Battles, Philadelphia, is now with J. J. Habermehl's Sons at the Bellevue-Strafford.

Cards are out announcing the marriage of Robert Halliday of Baltimore to Alverda Mary Easter, on January 24. The happy couple will be "at home" after February 25th, at 1624 Bolton street.

AMERICAN CARNATION SOCIETY.

Story of the Boston Meeting. An Unprecedented Exhibition.

Glorious Weather. Record Breaking Attendance.

Should the American Carnation Society exist for a hundred years to come—and we have no doubt it will—it is highly improbable that they will ever in the whole course of that time open a January meeting with such glorious weather as Boston handed out to her honored visitors on Wednesday, Jan. 24, the opening day of the fifteenth annual convention of the American Carnation Society. The attendance was remarkable in the great extent of territory represented and the prominence in the carnation arena of the individuals. Very few of the names prominent east of the Rocky Mountains were missing from the list of those in attendance. The same may be said of the varieties of carnations staged; few varieties recently heard of or aspirants for position were missing from the tables. The only serious absence was in the case of the varieties associated with the name of H. Weber & Sons, Oakland, Md. Through some inexplicable influence—possibly due indirectly to the warm weather at the time of starting—Mr. Weber's flowers, regardless of variety, were found, when the crates were opened, to have gone to sleep. Not a solitary flower was left. Much sympathy was expressed on all sides for Mr. Weber in this great misfortune.

The forenoon was spent in the work of staging, and it was well along after noon when the army of men had completed this duty and everything was in order for the judges' attention. A brief meeting was called, and it being learned that Mr. Rudd would not be present, William Weber was appointed a judge to serve in his place. Messrs. J. A. Valentine of Denver; Eugene Dailledouze of Brooklyn; and W. J. Palmer of Buffalo, were appointed additional judges. These gentlemen, with Messrs. William Scott and William Nicholson, previously announced, made up a good board of six, and when the evening session was called to order, their complete report, as it appears herewith, was on the secretary's desk ready for presentation to the Society.

The formal opening of the convention took place at 8 p. m., Wednesday, Jan. 24. The lecture hall was well filled with an audience that nearly filled the spacious room. President James Wheeler of the Gardeners' and Florists' Club of Boston, called the meeting to order, and after a few words of welcome on behalf of the club, introduced the mayor of Boston, Hon. John F. Fitzgerald, who made a most interesting and felicitous address on behalf of Boston. He told of the pride of the city in its Public Gardens and of the encouragement given to the public school pupils in the development of a taste for horticulture. He enumerated some of the men who have done so much to give Boston its horticultural prominence and the institutions that they have founded, and claimed that everything good in the

country at large owed something to the inspiration of Boston achievement. In presenting the visitors with the freedom of the city, he advised facetiously that a lookout be kept for the efficient district attorney, but thought no trouble would ensue if normal decorum be observed. His closing reference to Boston's rich historic associations and interesting landmarks was received with enthusiastic applause.

E. G. Hill responded in his usual happy vein, on behalf of the Carnation Society. He noted the great advance in carnation culture since the last meeting in Boston, eleven years ago. He congratulated the city, and admitted all that the mayor had said to be true, but submitted that Indianapolis was becoming a dangerous rival for Boston. Secretary W. P. Rich spoke a

and after a lapse of eleven years, the American Carnation Society again convenes in the city of Boston.

The avowed purpose of the organization at its inception was "The Advancement of the Carnation." Looking backward for a moment and drawing a comparison between the carnation as grown eleven years ago and that of today, no one will deny for a moment that the trend of improvement has been steadily onward and upward until the carnation as a commercial commodity ranks second to none, owing largely to its increased size, long keeping qualities and the beautiful and varied tints of new colors constantly appearing—this last by no means the least, as it keeps it out of a rut, and the purchasing public in this progressive age are ever looking for something new. For this advance we are indebted to a better knowledge as to cultural requirements obtained largely from the many excellent papers read at our annual meetings by growers, professors, wholesalers and retailers, and the free discussions on the science which bring out many points of value and interest, not only to the general grower, but also to those engaged in the cross-breeding and production of new varieties, whose first step if they would be successful must be: Bring your plants up to the highest state of cultural excellence, then it is simply summed up in one word—"Selection" all the time. Prices for strictly high-grade varieties have in some instances kept pace with the best roses, with the single exception of the American Beauty, and I venture to predict that a carnation will yet be produced, the pioneer of a strictly fancy strain in varied colors, that will even rival that popular rose in size and price.

Perhaps in our haste for size we sometimes lose sight of the fact that carnations are in three distinct classes—first, strictly fancy high-grade, producing comparatively few but first-quality blooms; second, the commercial class, producing abundantly blooms of varied color but smaller in size; and third, those exactly intermediate. Most of our popular sorts of today belong to this latter class, producing freely high-grade blooms that ought, in my opinion, to bring a better average price at wholesale than they do at present.

The country florist who retails the smaller commercial varieties at 50 to 75 cents per dozen would do well to grow also some of the better grade varieties. Show his customers the difference and by degrees educate them to buying the better sorts at from \$1 to \$2 per dozen, they would in the end prove more satisfactory to the purchaser, and the florist would derive more pleasure and profit from handling this grade of flowers. Introducers of new varieties would do well



PRESIDENT PETER FISHER.

few words of welcome on behalf of the Massachusetts Horticultural Society, and C. W. Ward made a reply, saying that "Boston never does things by halves, neither does the Carnation Society, neither does the Horticultural Society," and expressing his own attachment and the debt of gratitude he owed the Massachusetts Horticultural Society.

The president of the American Carnation Society, Mr. Peter Fisher, was then introduced, and received an enthusiastic welcome. After a few introductory words of greeting, he proceeded to read his formal address, which was as follows:

PRESIDENT FISHER'S ADDRESS.

Ladies, Gentlemen and Members of the American Carnation Society:

For the second time in its history,



ELSA STRUSS, WINNER OF LAWSON GOLD MEDAL.

to state distinctly to which of the foregoing classes their novelty belongs; also giving to the purchaser information on printed circulars with each shipment, details as to temperature, soil, etc., to assist him in its successful cultivation.

Phenomenal varieties rarely appear and, where they do, our attention ought to be directed to the discovery of cultural methods whereby their vigor and usefulness may be preserved instead of constantly running after new and untried sorts, so many times to our sorrow.

The conduct of originators who, after devoting much space and years to testing a new variety, finally advertising, and booking numerous orders representing thousands of dollars, find on the eve of dissemination that it has developed some trait rendering it undesirable as an acquisition and then withdraw it, is to be very highly commended, and I am glad to note that their number is increasing. This is a step in the right direction; we need more men of this class.

The most serious menace to the usefulness and progress of our society, in my opinion, lies in the staging at our exhibitions of varieties that have little or no commercial value. What is good for the advancement of, or hurtful to this society as a body, must act in like manner to every member as individuals.

The present date of our meeting (the last week in January) is, to my mind, just about the right time to exhibit new sorts, as they are certain during the dull short days of winter to develop any bad traits they may possess. It is easy to place on the exhibition table a variety, to all appearances almost faultless, which the exhibitor well knows will not stand inspection in his greenhouses at this season of the year. The judges must score on this exhibit according to the scale of points adopted by this society. It may score very high, so that it is awarded the trophy we all covet, viz., the gold medal. The prize list is published in the weekly papers, and the trade in general misled. This prize-taker is extensively advertised and thousands of dollars' worth of cuttings sold. A wrong has been committed, and that upon many who can ill afford the loss, not only in cash paid out, but much valuable time, and invariably the best bench space wasted, which must be added to the first cost, and yet our judges did their duty well. (They invariably do; they would not be human did they not make an occasional mistake, but it seldom occurs.) Who was to blame? The extremely charitable will say "a lack of good judgment"—or was it the "honor of the man." I hope before this meeting adjourns that this society will go on record as denounc-

ing anyone who through misrepresentation or concealment of defects disseminates to the trade worthless new carnations.

What we need in the future is disseminators with a sense of honor so fine that they will not hesitate to place alongside their product to be measured by its requirements the golden rule, and as they hear the "whatsoever ye would" ring in their ears will not thrust it aside, as I fear is sometimes done, saying "this does not include me." We would then see less pointing of the "finger of scorn" at the awards of our society; its indorsement would mean what it should, and was intended to be—a guarantee of excellence. A feeling of confidence would be a natural result amongst the trade, and the American Carnation Society would receive an irresistible impetus toward grander and nobler work in its mission for the advancement of the carnation.

The new set of by-laws for this society will be submitted at this meeting for your consideration and acceptance. I trust members will make it a point to attend all the sessions and by their presence and counsel help to make them what they are designed to be, mutually helpful.

Boston and vicinity has left "the latch string out" during your sojourn amongst us and we shall endeavor to make your stay pleasant and profitable.

The next in order were the reports of secretary and treasurer, presented respectively by Secretary Herr and Treasurer Dorner. The reports follow:

SECRETARY'S REPORT.

Mr. President, Ladies and Gentlemen of the American Carnation Society:

The report of the last annual meeting, a preliminary premium list and a copy of the by-laws as drawn up by your Executive Committee, were mailed as issued during the past year. Any paid-up member who did not receive all of these should write to the Secretary at once and see that their name and address get properly entered.

Our annual report is an important part of our work, and our discussions are important and interesting enough to be reported correctly, an impossibility with a new stenographer each meeting. What we need is a stenographer who will be with us year after year, who will learn to know us, learn to know the importance of a word missed in the middle of a discussion. We now pay over \$200 each year for our report; why not pay a little more and have it twice as good?

The attention of the members has been called in the premium list to the yearly expenses of the Society, almost one thousand dollars per year; listen carefully to the report of your Treasurer and you will see how much of this money has to be made up aside from the annual membership dues. The only available way to make this money is by advertising in the premium list and the entries at the shows.

This matter of advertisement is an important one to the Society and every member who has anything to advertise should use the premium list; it may not bring direct results, but it does give publicity at a very nominal figure and publicity before the members of the American Carnation Society is a paying investment.

Occasionally in meeting a fellow member the conversation drifts to the work of this Society, and the question is asked, why do you not do this, and why do you not do that. If any member has an idea of any kind for the betterment of the Society and its work and will put this idea into writing and send it to the secretary at any time during the year, a great amount of practical work could be done that escapes the attention of the officers. Try this for 1906 and begin right now with the question box at this meeting.

We are a live, practical society, but we need the assistance of every member, in order to keep the work up to the top notch of perfection we hope to attain.

TREASURER'S REPORT.

Orders on treasurer.....	\$1132.89
Cash on hand.....	317.08

Total	\$1449.97
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Receipts.

Balance, Jan. 23, 1905.....	\$413.13
Cash from membership.....	622.00
Cash from interest.....	81.84
Cash from registering.....	5.00
Cash from advertising.....	173.00
Cash from certs. of merit.....	67.00

Cash from special premiums....	77.50
Cash from checks returned....	10.50

Total	\$1449.97
Permanent Fund.....	\$1996.21

After the acceptance of the reports, Prof. H. E. Hall of Durham, N. H., was introduced and gave an interesting and practical address on carnation hybridizing, which was intently followed by his audience. We give the following extracts therefrom:

The method of crossing which has given us the best results is as follows: Selected plants of the varieties to be used in crossing are benched about Aug. 1st in order to have them well established and blooming freely by Oct. 15 at which time we begin the work of crossing and continue until about Dec. 1st. This season is selected for several reasons: more favorable weather than later; greater freedom in the production of pollen; plants are then strong while later they are often weakened through production and attacks of insects and diseases. Another reason often advanced is that at this season there is less danger of an undesirable mixing of pollen by bees and flies, but in our experience such fertilizing of the carnation very seldom, if ever, occurs at any season of the year.

Some varieties never produce pollen, others only during fall and spring, while some are productive in this respect at all seasons. By growing in pots and keeping rather dry we have obtained pollen during the winter months from varieties which refused to produce any when grown in a commercial way.

Select for parents the most promising plants of the varieties to be used. If the flower selected for female or seed-bearing parent contains stamens they should be removed with forceps or tweezers as soon as the flower opens or before the anthers show the pollen, otherwise self fertilization may take place. In most varieties the pollen matures before the stigma is ripe, thus eliminating much of the danger of self fertilization. When the pistil is receptive, which condition is indicated by the development of the stigmatic hairs, the pollen may be applied by the aid of a camel's hair brush or dusted from the male flower.

I have received best results in using for this purpose a strip of ordinary blotting paper three or more inches long and about one-half inch in width, one end being cut with scissors to resemble a sharpened pencil, the point of which is slightly fluffed to enable it to take up and hold the grains of pollen until lightly rubbed over the stigmatic surface of the pistil.

By this method we have been successful in setting over ninety per cent of all flowers worked and requiring very little pollen, none being wasted as in other ways. This method is original with us so far as I am aware.

From 10 A. M. until 2 P. M. on bright sunny days and a fairly dry well-ventilated house, are ideal conditions for pollinating. If the operation is successful the petals will wilt in from 1 to 3 days, soon after which a part of the calyx should be torn down to allow the nectar to drain off which, if allowed to remain, would de-

velop a fungus growth and destroy the ovary. The seed pods should remain on the plant about eight weeks or until the seeds are brown, when they may be gathered with their stems and put away in a dry place for a short time to ripen. A good time to plant is from Jan. 15 to Feb. 15.

Carnation breeding is yet in its infancy. The leading varieties of today will be little grown ten years hence; what the type of that time will be no one can tell. The object of crossing is to combine the good qualities of both parents in the progeny. This combination, however, is seldom obtained, but by knowing the pedigree of each of the parents used the breeder should be able to produce the type desired by growing a large number of seedlings from which to select.

After breeding out of a variety, certain undesirable traits, by selection, and using this variety as a parent in making a cross, we often find the old hidden faults very much in evidence in the offspring. When the inherent forces of two plants unite in a cross, a struggle for supremacy takes place, whereby the fixed or constant characters are set free, to gather again in the progeny in various combinations of form, color, etc.

As no two plants of the same variety are exactly alike, it is very important that a careful selection be made and that a large number of plants be available to select the parents for crossing.

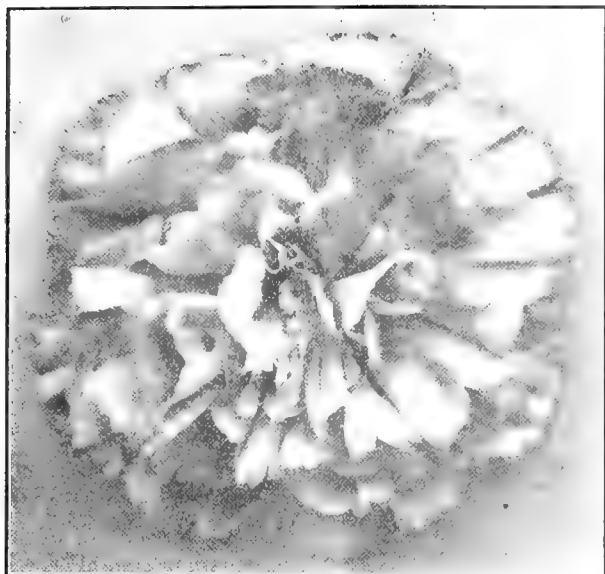
Some varieties have unknown or hidden qualities; for instance, the color character of a flower is often compound when it appears to be simple. In breeding we often look upon a plant as a unit when it really comprises a large number of traits or characters.

The longer we work in a random way the more puzzling becomes the question of inheritance and cross breeding to one in search of definite results.

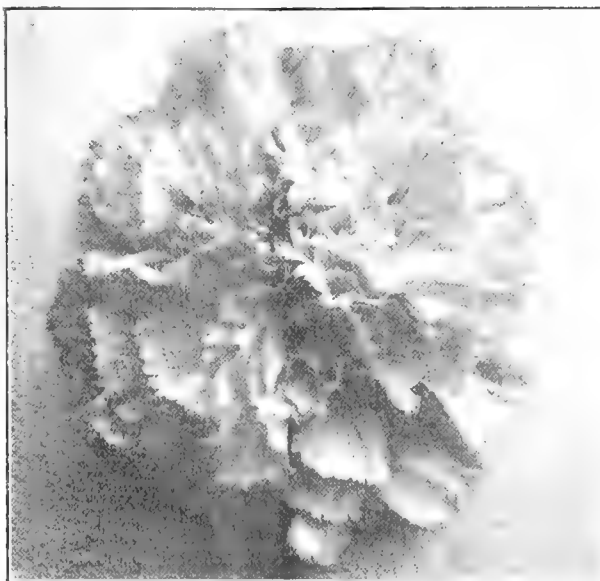
We should seek a better knowledge of the laws of plant breeding as at present we are groping in the dark so far as a knowledge of past results is concerned.

I would suggest that all information obtainable upon this subject be collected by this society to be published from year to year in its report from which conclusions could be drawn to be used as a foundation for future work, thus enabling us to slowly advance in the knowledge of the laws which underlie the breeding of this plant.

In the discussion following Prof. Hall's address Mr. Ward endorsed that gentleman's advocacy of record keeping. He outlined the methods he had followed for a number of years in his own practice, keeping a tag on each plant, giving the data during the period of observation, which was afterwards filed away in regular form for future reference. He advised the liberal use of white and yellow varieties as plants from which to breed clear scarlets and pure pinks. Breeding from solid colors continuously is apt to develop too great intensity, giving a tendency to blackness in reds and magenta in pinks. He finds that the preponderating color in the pedigree controls the progeny color and not, as is sometimes claimed, that the pollen par-



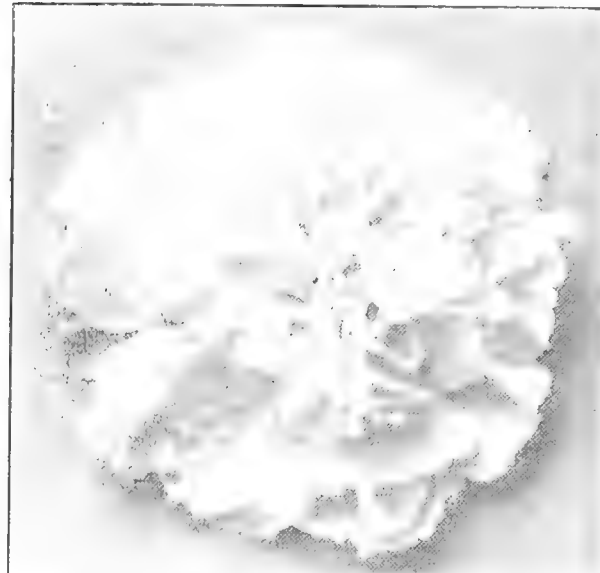
WINSOR—F. R. Pierson Co.



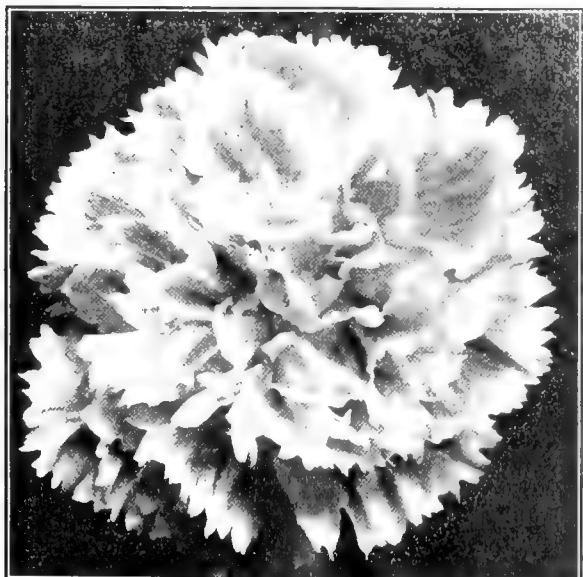
HELEN M. GOULD—F. R. Pierson Co.



No. 135-02—H. Weber & Son



WHITE ENCHANTRESS—F. R. Pierson Co.



No. 9-03—H. Weber & Son



JESSIE—H. Weber & Son

ent has this special influence. He hopes in time, by constant systematic recording of results, to work out a rule that can be relied upon in breeding to a specific object. On the best time of the year for pollinating he did not agree with Prof. Hall, but thought January and February preferable to October, November or December. Mr. Ward also emphasized the necessity of securing parents in good health, not overfed nor weakened in any way.

President Fisher and R. Witterstaetter agreed with Mr. Ward as to the desirability of yellow in lightening up color in carnation progeny.

Selection of next place of meeting was next in order. Invitations were received from the Pennsylvania Horticultural Society to hold the meeting of 1907 in Philadelphia. J. H. Dunlop presented similar invitations from the Toronto Electoral District Society and the Toronto Horticultural Society on behalf of Toronto.

Nominations for officers were the next business, and resulted as follows: For president, J. H. Dunlop, Toronto, Ont.; vice-president, W. J. Palmer, Buffalo, N. Y.; secretary, A. M. Herr, and treasurer, F. E. Dorner; director to succeed himself, Eugene Dailedouze; judge to succeed himself, W. N. Rudd.

The session of Thursday morning was opened rather late, it being 10.45 A. M. when President Fisher called the meeting to order. The first thing on the program was Thomas F. Galvin's paper on "The Carnation from the Retailer's Standpoint. On account of Mr. Galvin's illness the paper he had prepared was read by his brother, J. Mitchell Galvin.

The paper was as follows:

Being a business man, and also wholly unsuited to take up the matter devolving upon me, viz., to present the commercial aspect of the carnation to your readers and the public, I am free to acknowledge that I approach the subject with much trepidation, but the results of the improvement of the carnation, as a vital adjunct of the florist business have been so far-reaching, and the extraordinary popularity that it has attained in recent years leads me to venture the statement that it has almost supplanted the rose, in interest and importance.

From the small, weak and insignificant pink, slender and drooping in its characteristics, we now have one of the most vigorous, strongest and most important gems of the whole floral kingdom, and so general has been the interest in the development of this popular flower that, beside the above improvements, there have been added many new, brilliant and dazzling colors, which, when massed or assembled and gathered together, produce an effect almost bewildering in attractiveness. In fact, today perfect carnations are an indispensable adjunct of the business of the florist. They have the keeping qualities so necessary for the satisfaction of lovers of the beautiful in flowers, and many instances can be cited where they have graced the boudoir and table and staterooms of many a transatlantic palace liner, when the charm and beauty and fragrance of all other flowers have passed away.

With the present system of growth,

in many instances single flowers have been produced which could not be put into a large sized goblet without being crushed; and with stems so firm and rigid that they could be used for a multitude of purposes without being wired. While this might be considered a more commercial aspect of the question, it is one that is far-reaching in its results. I believe that the introduction of the Lawson carnation has done much to awaken enthusiasm among all classes of our people in favor of this type of flower. It is a well-established precedent that nothing can be made a genuine success without having the attributes of true merit behind it, and in order that the public shall appreciate and realize the good in any proposition or undertaking, it must have the ear-marks of future success. This proud distinction I claim, without prejudice, for the Lawson carnation, and from the time that the wizard of carnation culture, Mr. Peter Fisher, first brought it to my attention, up to the present time, nothing has been produced that can in any way rival this magnificent production. In all parts of the world where the love of flowers is predominant, the name of Lawson carnation is a household word. Its glories have stimulated horticulturists in a laudable and ambitious rivalry to produce something which could compete with it, and while many new types have been evolved which have been a revelation in the floral world, the Lawson, with its brilliant color and sturdy characteristics, in my humble opinion, still holds its proud place as the queen of the carnation family. As our good business stands today, our avocation, with the carnation eliminated from the channels of trade, would be like Shakespeare's greatest production with Hamlet left out. With the increased public interest in the carnation a more popular demand has been stimulated in all that tends to develop and build up a business which is increasing wonderfully all over the world. From a comparatively unimportant, and I might almost say, obscure line of trade, we are becoming a famous, popular, profitable and important industry. Nature is so lavish with her favors, and so wonderful are our resources of soil and climate, and environment, being absolutely boundless in their possibilities, that we have a never-ending field for honorable service and ambition to cultivate. Montgomery gave to the world his magnificent results of rose culture; Coleman first brought to our notice the great possibilities of the chrysanthemum; Fisher astonished us all by his careful, patient and successful efforts on the carnation. And I take a pardonable pride in a modest reference to the fact that here in our own good city of Boston, much that has been done in growth, progress and good results has been introduced and brought to a successful conclusion by Boston men.

Our business has reached a volume and proportion beyond what the most sanguine could be led to hope for, and speaking from the standpoint of a retailer, I can say the beautiful and popular carnation has not been the least of the factors contributing to this attainment.

The secretary then read a list of the varieties registered during the year. A discussion ensued on the

necessity of a better system in the department of registration, which resulted in the adoption of a motion to have a committee appointed to make a set of new rules governing the matter of registration. Messrs. C. W. Ward, F. R. Pierson and J. A. Valentine were appointed as the committee. An animated debate on the recommendations in the president's address brought out a vote that it is the sense of the meeting that no final certificates of merit be given to any variety until the growing stock has been inspected by a committee of competent judges, and so recommended by them for final action by the society, and this matter was given to the above-named committee to be incorporated in their report.

The next thing on the program was J. A. Valentine's paper on "Carnations in the Rocky Mountains." Mr. Valentine was received with great cordiality, and his splendid paper was accorded tumultuous applause and a unanimous vote of thanks. Lack of space compels us to hold it over until next week.

H. M. Altick made an interesting report for the committee on McKinley memorial, showing that he had collected \$795.39 in cash and had several hundred dollars more subscribed but not yet paid in.

THE EXHIBITION.

As before stated, the exhibition excelled in every respect anything thus far in the Society's history, not only in the extent and number of the exhibits, but the quality of the blooms. With the exception of Mr. Weber's flowers, which were ruined in transit, practically everything arrived in good order, and it is especially gratifying to record that the flowers held over splendidly, and Thursday morning found the display almost as fresh and attractive as on the opening day. Indeed, some exhibits actually improved. The wonderfully congenial atmosphere of Horticultural Hall for flower keeping was again in evidence in a most unmistakable manner.

The coveted Lawson gold medal was won by Cottage Gardens with the beautiful cerise, Elsa Struss, which was described in a recent issue of HORTICULTURE under No. 508. The Lawson silver medal went to F. R. Pierson Company for the pink gem Winsor, also described at length in these columns recently. Robert Craig, from the Cottage Gardens, won the Lawson bronze medal. The S. A. F. silver medal was won by Cottage Gardens with Mrs. C. W. Ward, described in our columns recently under No. 504. Two bronze S. A. F. medals were recommended by the judges, one to Cottage Gardens for Robert Craig, and one to Peter Fisher for Beacon, a superb red.

Silver cup, offered by A. H. Hews & Co., Cambridge, Mass., for the best collection of carnations, four varieties, 25 blooms of each, to be shown in separate vases, either seedlings or named sorts and no restrictions as to color—William Nicholson, Framingham, Mass.

Silver cup, offered by Thomas F. Galvin, Boston, for eight varieties of carnations, 25 blooms to a vase.—Peter Fisher, Ellis, Mass.

Silver cup, offered by W. W. Rawson Seed Company, for three varieties of

carnations, 50 blooms to a vase.—William Nicholson, Framingham, Mass.

Silver cup, offered by R. & J. Farquhar Company, Boston, for the best 12 blooms of a carnation (one variety), open to private gardeners only.—W. Kleinheinz, Philadelphia, with Lady Bountiful.

Fifteen dollars cash by the Schlegel & Fottler Seed Company, Boston, for the best vase of 100 blooms, dark pink carnations.—Patten & Co., Tewksbury, Mass.

Ten dollars cash by William Nicholson, Framingham, Mass., for the best vase of 50 blooms, dark pink carnations.—D. Carmichael, Wellesley, Mass.

Ten dollars cash by Patten & Co., Tewksbury, Mass., for the best vase of 100 blooms, variegated carnations. Mrs. M. A. Patten type.—Peter Fisher, Ellis, Mass.

Two prizes, \$15 and \$10, by the Gardeners' and Florists' Club, Boston, open to private gardeners only, for the best three vases of carnations (three varieties), 25 blooms to each vase.—First, L. W. Kleinheinz, Philadelphia, Pa.; second, H. P. Belmont, Newport.

The awards in the regular schedule list were as follows:

Vase 100 blooms, daybreak shade of pink—First prize, Peter Fisher, Ellis, Mass., with Enchantress; second, F. R. Pierson & Co., Tarrytown, N. Y., with Enchantress.

Vase 100 blooms, Lawson shade of pink—First prize, Peter Fisher, Ellis, Mass., with Nelson Fisher; second, Pierce Bros., Waltham, Mass., with Mrs. T. W. Lawson.

Vase 100 blooms, Scott shade of pink—First prize, S. J. Goddard, Framingham, Mass., with Helen Goddard; second prize, Cottage Gardens, Queens, N. Y., with Mrs. W. B. Mershout.

Vase 100 blooms, scarlet—First prize, Cottage Gardens, Queens, N. Y., with Robert Craig; second, Pierce Bros., Waltham, with Beacon.

Vase 100 blooms, crimson—First prize, Cottage Gardens, Queens, N. Y., with The President; second, Dailedouze Bros., Flatbush, N. Y., with Crimson Glow.

Vase 100 blooms, white variegated—First prize, F. R. Pierson & Co., Tarrytown, N. Y., with M. A. Patten; second, Peter Fisher, Ellis, Mass., with M. A. Patten.

Vase 100 blooms, any other color—First prize, W. Nicholson, Framingham, with Prosperity; second, Patten & Co., Tewksbury, with Mikado.

Class B, open to all varieties disseminated prior to July 1, 1905.

Vase 50 blooms, white—First prize, Patten & Co., Tewksbury, with Lady Bountiful; second, Peter Fisher, Ellis, Mass., with Lady Bountiful.

Vase 50 blooms, daybreak, shade of pink—Patten & Co., Tewksbury, with Enchantress; second, Thomas F. Mathews, Dorchester, with Enchantress.

Vase 50 blooms, Lawson shade of pink—First prize, Guttman & Weber, Lynbrook, N. Y., with Mrs. T. W. Lawson; second, Pierce Bros., Waltham, with Mrs. T. W. Lawson.

Vase 50 blooms, scarlet—First prize, F. R. Pierson & Co., Tarrytown, N. Y., with Red Lawson; second, Patten & Co., Tewksbury, with Minley.

Vase 50 blooms, crimson—First prize, Cottage Gardens, Queens, N. Y., with Octoborn; second, Bowker & Co., Cambridge, with Harry Penn.

Vase 50 blooms, yellow variegated—First prize, Patten & Co., Billerica, with Eldorado.

Best vase 50 blooms, white variegated—First prize, Patten & Co., Tewksbury, with M. A. Patten; second, F. R. Pierson & Co., Tarrytown, N. Y., with variegated Lawson. Class C, open to all varieties disseminated prior to July 1, 1904.

Vase of 25 blooms, white—First prize, Charles S. Grant, Rutherford, Me., with Lady Bountiful; second, Patten & Co., Tewksbury, Mass., with the Belle.

Vase of 25 blooms, daybreak shade of pink—First prize, George E. Buxton, Nashua, N. H., with Enchantress; second, F. R. Pierson & Co., Tarrytown, N. Y., with Enchantress.

Vase 25 blooms, Lawson shade of pink—First prize, Pierce Bros., Waltham, with Mrs. T. W. Lawson.

Vase of 25 blooms, scarlet—First prize, George E. Buxton, Nashua, N. H., with Cardinal; second, F. R. Pierson & Co., Tarrytown, N. Y., with Red Lawson.

Vase of 35 blooms, crimson—First prize, Backer & Co., Billerica, Mass., with Harry Penn.

Prize of 25 blooms, yellow variegated—First prize, Backer & Co., with Eldorado.

Vase of 25 blooms, white variegated—First prize, Pierce Bros., Waltham, with M. A. Patten; second, Backer & Co., Billerica, with M. A. Patten.

Best general display of commercial carnations, with no restrictions as to color, variety disseminated prior to April 1, 1905, 50 blooms shown to a vase, display not to exceed 20 varieties; vases from this collection not allowed to compete in any of the other classes. First prize, \$50, The Noble Greenhouse Company, South Sudbury, second, \$30, The Chicago Carnation Company, Joliet, Ill.; third, \$20.

Special mention was given to Backer & Co. for seedling, Elm Court Farm for Flamingo, H. W. Field for Prospector, Daille Douze Bros. for Rob Roy, H. R. Carlton for violet Gov. Herick, William Sim for sweet peas, and violet Princess of Wales, John T. Gale for sweet peas, F. R. Pierson Co. for Nephrolepis elegantissima, James Crawshaw for new asparagus, F. H. Kramer was present with a vase of his rose Queen Beatrice. A number of special trade exhibits were located at the west end of the large hall. Among them were Kroschell Bros., with greenhouse heating specialties under charge of Fred Lautenschlager; H. M. Robinson & Co., florists' greens; Cleveland Cut Flower Co., everlasting greenhouse bench; Gove Bros., zinc capes for glazing; F. T. Buxton, greenhouse bracket; G. B. Anderson, ventilating appliance.

In the small exhibition hall a very choice display of primulas, sinensis and obconica—orchids, violets, carnations, etc., was made under the auspices of the Massachusetts Horticultural Society. Prizes were awarded in this department as follows:

Awards for plants and flowers. Primula sinensis, six plants in not less than six inch pots—First, Edward J. Milton; second, William Whitman; third, Mrs. J. L. Gardner. Primula stellata, six plants in not less than six-inch pots—First, William Whitman; second, Mrs. J. L. Gardner; third, Mrs. C. C. Converse and Mrs. Lester Leland. Primula obconica varieties, six plants in not less than six-inch pots—First, Mrs. J. L. Gardner; second, George F. Fabyan, third, George F. Fabyan. Violets, best bunch, 100 blooms, double—First, J. T. Gale, second, Malcolm Orr; third, A. F. Calder. Best bunch, 100 blooms, single—First, Dr. C. G. Weld; second, Harry F. Woods; third, G. W. Ayer. Carnations, best vase, 25 blooms, white—First, H. A. Stevens Company. Best vase, scarlet—First, H. A. Stevens Company. Best vase, light pink—First, L. E. Small; second, R. D. Kimball. Best vase, any named daybreak-colored variety—First, Backer & Co.; second, Elijah A. Wood; third, H. A. Stevens Company. Best vase, dark pink—First, H. A. Stevens Company; second, H. A. Stevens Company; third, Backer & Co. Best vase, crimson—First, Backer & Co.; second, H. A. Stevens Company. Best vase, striped—First, William Nicholson; second, H. A. Stevens Company; third, Backer & Co. Best vase, yellow—First, Backer & Co.; second, ditto; third, ditto.

Gratuities—H. A. Stevens Company, display of carnations; H. A. Jahn, display of carnations; William Nicholson, carnations; J. E. Rothwell, vase of cut orchids; Mrs. W. A. Blake, helia superbiens and expidium nitens; William Whitman, Primula obconica; Mrs. Frederick Ayer, Chorizema ilicifolia; Harvard Botanic Garden, calceolines and primulas; Thomas Stock, vase of bonvardia and centaurea; Julius Roehrs Company, vase of orchids and platanopsis; Harvard Botanic Gardens, display of strobilanthes, cyclamen and lachenalia; Julius Roehrs Company, display of forced lilacs.

Silver medal Oakes Ames, rare orchids of botanical value; J. E. Rothwell, Laelia cathleya, Gen. French (C. trianae); L. C. Nabarra.

First class certificate of merit Alexander Ogg, anathyllis of remarkable growth; Lowthorpe school of horticulture, Groton, Mass., Mahernia odorata.

Honorable mention H. A. Jahn seedling carnation, No. 49.

Awards for vegetables—Cauliflowers, four specimens, first, E. R. Teel; second, J. M. Handley; estate; third, W. H. Teele, Celery, four roots, first, A. E. Hartshorn, second, W. Heustis & Son; third, W. H. Teele. Lettuce, four heads, first, George D. Moore; second, A. E. Hartshorn; Mushrooms, 24 specimens, first, H. A. Stevens Company. Parsley, two quarts, first, A. E. Hartshorn; second, Mrs. C. C. Converse and Mrs. Lester Leland. Radishes,

four bunches, first, A. E. Hartshorn. Spinach, 12 specimens, first, W. Heustis & Son.

THE CLOSING SESSION.

At Thursday afternoon's session Vice-President Dunlop occupied the chair. On the question of location for next year's convention he informed the society that arrangements would be made whereby all flowers intended for exhibition purposes would be admitted free of duty, whereupon Toronto, Ont., was selected as the location for the convention of 1907. A. J. Guttman of New York then read his paper on "The Carnation from the Standpoint of the Wholesaler." This excellent paper will appear in our issue of next week.

Election of officers was then held and the following gentlemen were each unanimously elected: President, J. H. Dunlop, Toronto, Ont.; vice-president, W. J. Palmer, Buffalo, N. Y.; secretary, A. M. Herr, Lancaster, Pa.; treasurer, F. E. Dörner, Lafayette, Ind.; trustee, Eugene Dailedouze, Brooklyn, N. Y.; judge, W. N. Rudd, Chicago.

The proposed new by laws of the society were then taken up and after a free discussion on each clause and a number of amendments were finally adopted. The committee on final resolutions, Messrs. P. J. Hauswirth, P. O'Mara and W. F. Kasting presented the following report, which was unanimously adopted, after which the convention adjourned:

"Your committee on final resolutions desires to record for the American Carnation Society their high appreciation of the unstinted welcome extended to us by the city of Boston through its honored chief magistrate, Hon. John F. Fitzgerald. It is with feelings of heartfelt gratitude that we acknowledge the generous hospitality extended to us by the Massachusetts Horticultural Society, and the Gardeners' and Florists' Club of Boston, whose guests we were; this coupled with the unvarying courtesy and uniform kindness shown us will keep forever green in our memory the Boston convention of 1906. To the daily press of Boston we express our pleasure and appreciation for the full accounts and friendly notices presented in its columns. Therefore be it

Resolved, That we extend to His Honor the Mayor, the Massachusetts Horticultural Society and the Gardeners' and Florists' Club of Boston our appreciative thanks for the kindly and generous welcome accorded to us, and also to the daily press of Boston for its friendly notices. We wish to assure all who have in any way contributed to the success of the convention of 1906, that their efforts are appreciated and we extend to them our warmest thanks."

THE BANQUET.

The visitors were entertained on Thursday evening in the banquet hall of the Copley Square Hotel as guests of the allied horticultural interests of Boston, President Wheeler of the Gardeners' and Florists' Club presided and Judge C. W. Holt of Nashua, N. H., filled the position of toastmaster with characteristic ability and wit. Letters were read from the mayor and from W. R. Smith of Washington, D. C., expressing good wishes and regret at inability to be present.

The first toast, to the ladies, was responded to by L. E. Marquise of Syracuse, N. Y., who told some amusing stories as a starter and finished with due eloquence. Prof. L. C. Elson, being the next called upon, gave an interesting account of the association of flowers with banquets in the festivities of the ancient Egyptians, Romans and Greeks and closed with the following clever original lines which were vociferously cheered.

Let others sing the blushing rose
With fervent agitation,
I'll praise as wonderful a flower,
The florist's pet Carnation.

We've had them here of every sort,
This is no mere bravado,
There's been a great "Enchantress" who
Entranced the brave "Mikado."

And there was pretty "Alma Ward,"
As "Winsome" as a fairy,
And "Victory" and "Winsor" too
With graces light and airy.

And since this is Ladies' Night,
I'll call to your attention,
That there were ladies mid the pinks
Too numerous to mention.

QUEEN BEATRICE

For "Mrs. Patton" chaperoned
A "Finnee" sedately,
While "Lady Bonntiful" brought "Belle"
And "Helen Goddard" stately.

And "Mrs. W. B. Mershont"
With "Mrs. Ward" was sitting,
While round about Miss "Elsa Struss"
An "Octobron" was fitting

And in this coterie of dames
Stood "Mrs. Lawson" beaming,
While "Marion Pierce" made her debut
With every petal gleaming

A "Mandy" party too was there,
With "Nelson Fisher" in it,
Where "Robert Craig" stood up to talk
With "Harry Fenn" a minute.

But one "Aristocrat" held off
To wait another season,
He'll be with us this time next year,
Or have to show a reason

Upon our "Eldorado" fair,
"Prosperity" descended,
The "President" himself was there
By "Cardinals" attended.

Now here's to the convention guests,
Let's give them an ovation,
Long live the Florists of this land,
Long life to their Carnation

W. F. Kasting of Buffalo responded for the S. A. F., and earnestly urged all present to go to the convention at Dayton, O., next August.

E. G. Hill seconded the appreciative sentiments of Mr. Marquisee on the ladies coupling especially therewith the name of Mme. Lemoine of France, who had contributed so much to the great horticultural achievements of her honored husband.

The Farquhar cup was then handed to its winner, Wm. Kleinheinz of Philadelphia; the T. F. Galvin cup to Peter Fisher; the Rawson cup and the Hews cup to Wm. Nicholson; the Lawson gold medal to C. W. Ward, and the Lawson bronze medal to F. R. Pierson, all of whom responded in words of appreciation. Mr. Ward pleaded guilty to being as much of a ladies' man as Mr. Hill. He gave a pleasant account of a recent visit to Luther Burbank while on a trip to the Pacific coast. F. R. Pierson also followed suit in eulogizing the ladies, whom he was delighted to see in such large numbers at the banquet, and said he had never known the place the ladies occupied in horticulture until he had come to Boston. J. H. Dunlop, president-elect, expressed his appreciation of the honor conferred on him and said he hoped to see the next carnation convention outside of the United States a great success, urging the co-operation of all present to bring this about.

Patrick O'Mara responded for the bachelors. He said that these "had been created by God for the consolation of widows and the hope of maidens." He confessed to being a "confidence man," but had been unable to find anything green enough in Boston. He created much merriment by his enumeration of the artistic, sensational and ridiculous fakes in horticulture, including in the category some of the alleged achievements of a Pacific coast celebrity who had been lauded as outdoing the Almighty. J. Austin Shaw was the last speaker, his topic being the power of the press. He spoke a word of kindly praise for Boston's latest addition to the list of journals, *HORTICULTURE*, and told of the sentiments pervading the entire horticultural press and their activity in promoting the best interests of horticultural advancement. He closed with some amusing topical verses and a recitation.

During the evening songs were delightfully rendered by Miss Wither and Mr. F. B. Carroll and by Mr. Lawrence Toronto's gifted troupe. A roving band of thanks to the toastmaster brought to a close this very enjoyable reunion.

The banquet hall was lavishly decorated with flowers and green

News of the Clubs and Societies.

WASHINGTON STATE HORTICULTURAL SOCIETY.

The second annual meeting of this body was held in North Yakima on January 9-12. Among the valuable addresses of the first day was that of President Richards, who, in reviewing the growth of horticulture in the last decade stated that more than 600 cars of apples were being shipped from the state annually now where ten years ago there were not enough to be recorded. The second day was devoted largely to the codlin moth. Prof. Melander of the State College, stated that he estimated the value of the apple crop annually destroyed by the codlin moth as \$200,000. In the lengthy discussion which followed it was generally conceded that the pest could not be eradicated. On Thursday officers for the ensuing year were elected as follows: President, W. H. Paulhamus of Sumner; vice-presidents, J. F. Littooy, Everett, and W. S. Phillips, Wenatchee; treasurer, W. N. Just, N. Yakima; secretary, L. G. Monroe, Spokane. The committee on resolutions urged earnest work for the passage of the bill appropriating money for state experimental purposes. Everett was selected for the convention of 1907.

LENOX HORTICULTURAL SOCIETY.

The regular meeting was held January 20. Vice-President Heeremans in the chair. Pres. Carlquist, while walking to the village, slipped on the ice and broke his arm, and was not able to attend.

A scale of points for judging vegetables and fruits at our exhibition has been drawn up, and was unanimously adopted. The ball committee reported progress; have engaged Gartland's Tenth Regiment orchestra of Albany and the ball will be given February 6. A paper on "Greenhouse Heating and Boilers" by Charles W. Cary, secretary of the Greenhouse Heating Fitters' Association of New York and vicinity, was read and was esteemed by all present to be very valuable. After adjournment a social hour was enjoyed.

GEORGE FOULSHAM, Secretary.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

The United States Nursery Co., S. W. Crowell, manager, Rich, Miss., submits for registration a new rose, Helen Good, a sport from Maman Cochet; identical with the variety in growth, foliage, size and shape of flower; differs only in color which is a shell pink, suffused with golden yellow. Very distinct.

W. J. STEWART, Secretary.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY.

At the last meeting of this society the question of having a large show in November was discussed and the decision was unanimous in favor of it. The program for the year is as follows:

February 6.—Rose Culture Under Glass.—J. MacGregor.

February 20.—The Chrysanthemum.—W. Angus, Chapinville, Conn.

March 6.—Cut Flowers.—J. N. Champion.

March 20.—The Carnation.—H. Cliff, Fairfield.

April 3.—Flower and Vegetable Seeds.—R. Veitch.

April 17.—Trip to Jamaica.—E. F. Coe.

May 1.—Pansy Culture.—A. J. Thompson.

May 15.—The Begonia.—William Ferrier.

June 5.—Landscape Gardening.—P. Keane.

June 19.—Heather.—E. Carroll.

July 7.—Perennials.—J. H. Murray.

July 17.—The Cactus.—W. Koella.

August 7.—Gladioli.—J. H. Slocombe.

August 21.—Grape Culture Under Glass.—D. Kydd.

September 4.—Water Lilies and Goldfish.—F. Duffy.

September 18.—Dahlias.—J. H. MacDonald.

October 2.—Vegetables.—H. Grove.

October 16.—Boston Ferns and Commercial Plants.—F. Rehbein.

ELBERON HORTICULTURAL SOCIETY.

The regular meeting was held on Monday, January 22, with the largest attendance since the society was formed. One new member was admitted. A paper, "Carnation Culture," was read by G. Masson, which was ably written, favorably commented on, and much enjoyed.

OMAHA FLORIST CLUB.

This club, which was formerly known as the Nebraska Florist Society, held its first meeting of the year on Jan. 11. It was decided to hold a flower show in the fall, and A. Donahue, W. R. Adams, J. J. Hess, L. Henderson and J. F. Wilcox were appointed to arrange for it.

NEW HAMPSHIRE HORTICULTURAL SOCIETY.

At the annual meeting held in Concord on January 17, the following officers were elected: President, C. C. Shaw, Milford; vice-president, John T. Harvey, Milford; secretary, W. D. Baker, Quincy; treasurer, T. E. Hunt, Lakeport. It was voted to hold the annual summer meeting with Prof. J. W. Sanborn on Wilson Farm, Gilmanston, June 27.

VICTORY

A brilliant scarlet Carnation. Requires only **ORDINARY CULTURE**. Is a fancy in the fullest sense of the word. Wholesaled for \$25.00 per hundred at Christmas. We need no longer advertise Victory aggressively. Over 200,000 already are sold. All orders booked now for March delivery. Be quick if you want the freest blooming and best **COMMERCIAL SCARLET**.

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GARDNER'S SPECIAL OFFER OF ROSES, PRIVET, PHLOXES AND HOLLYHOCKS

To clear the ground quickly and make room for other stock we make cash offer of several large blocks of the under rated:

ALL FIELD GROWN STOCK

Farquhar Rose, 2 year, field grown	per 100	\$7.50
Dorothy Perkins, 2 year, field grown		7.00
Rosa Multiflora, 2 year, field grown		4.00
California Privet, 2 year, 1 1-2 to 2 feet, well branched, shapely stuff	per 1000	25.00

California Privet, 2 to 2 1-2 feet, well branched and shapely	per 1000	\$35.00
Wm. Robinson Phlox, the best hardy, salmon pink variety on the market, 2 year, field grown clumps, extra value	per 100	8.00
Allegheny Ben's Hollyhocks, an extra fine strain of this popular Hollyhock	per 100	3.00

MONTGOMERY NURSERIES - - - Villa Nova, Del. Co., Pa.

JNO. G. GARDNER, Proprietor

Only 12 miles from Philadelphia on the P. R. R., prompt shipments to all points.

NEW CARNATIONS OF H. WEBER & SONS.

My Maryland. Pure white. This variety has already been freely exhibited over the country, and described before in these columns. In some sections it will require severe pruning, owing to the heavy growth it makes in certain soils.

Jessica. Red and white variegated. Habit and height similar to Lawson, but is even a stronger grower. Of Bradt and Helen Keller extraction on the one side, and Lawson on the other. Size, 3 1-2 inches in diameter.

No. 24, '02. Parentage, a deep pink seedling and Lawson. Height and habit very similar to Lawson. Flower is considerably larger, better formed and of better and more even color. All shoots come from the base of plant, the stems being practically bare of any side growth. Size 3 to 3 1-2 inches.

No. 135. Gov. Lowndes x New Day-break. A brilliant shade of daybreak pink. Habit and height similar to Lowndes, but stronger and better. Very free, early. Well filled but not heavy flower; strong stems and a fine keeper. Requires no feeding during winter, and must be grown cool. Size, 3 to 4 inches.

No. 70, '02. Pure pink, quite distinct from anything ever before seen. Size from 3 to 4 inches, according to treatment given. Strong grower, blooming early and producing long stems right at the start. When grown cool the habit is ideal, but inclines to softness when grown too warm. Messrs. Weber say that this variety is probably the greatest producer ever grown on their place.

No. 9, '03. In color, a very much improved Prosperity. Parentage,

Prosperity x No. 24, '02. Ground color is white, heavily overlaid with scarlet, barring a broad distinct zone of pure white on the edges of the petals. The latter are deeply serrated. It has the stiff stems of the pollen parent, and as long as Prosperity. In size it is equal to Prosperity at its best.

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Tuberous Rooted

	Per doz	Per 100
Single White	\$0.35	\$2.25
" Yellow	.35	2.25
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" Red	.35	2.25
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" Dark Red	.65	5.00
" Red	.65	5.00
" Salmon	.65	5.00
" Mixed	.50	4.00

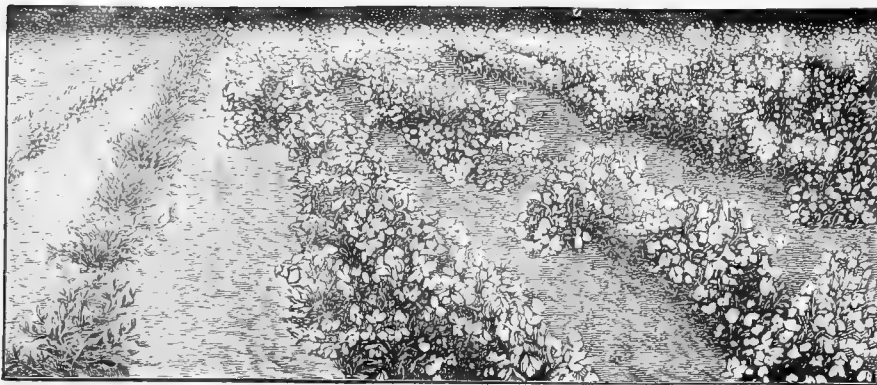
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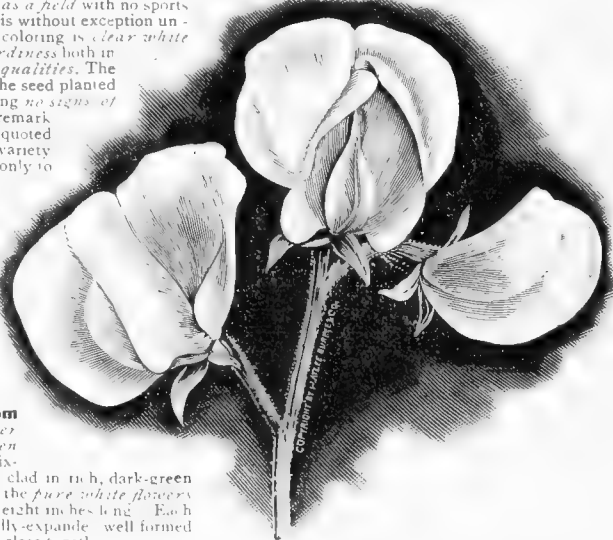
BURPEE'S EARLIEST WHITE,—in contrast with "Mont Blanc" to the left,—see text below.

New Sweet Pea, — Burpee's Earliest White.

Origin. Florists, who force Sweet Peas, can imagine our delight when, two years ago, our friend, Mr. THOS. GOULD, of Ventura County, California, found that in a field of the *Re-Selected Burpee's Earliest of All*, which he was growing for us, one plant,—exactly similar in all other respects,—produced *pure white flowers*. Needless to say this plant was carefully guarded, and by growing two crops each season we are now able to introduce BURPEE'S EARLIEST WHITE as the only white Sweet Pea that will be used for forcing or extreme early crop,—just as soon as its unique merits are known and sufficient seed can be obtained.

Burpee's Earliest White has been carefully tested at FOREHOOK and the originator's crops thoroughly inspected in California during the seasons of 1904 and 1905. After returning from our first visit the past season (in July) we wrote that of the new crop then starting with *Mont Blanc* alongside) we should like a photograph. On August 22, 1905, Mr. THOS. GOULD sent a photograph from which the above illustration has been reproduced, and wrote:

"The crop planted July 12th came in bloom August 20th and is now *quite white* as a field with no spots whatever showing. The habit is without exception uniformly dwarf and even. The coloring is *clear white* and the stock is of unusual sturdiness both in germination and in growing qualities. The plants of *Mont Blanc*, from the seed planted the same day, are as yet showing no signs of bloom. In this line I should remark that in former test-when I quoted the *Mont Blanc* as a white variety next-earliest bloomer it related only to one or two plants in the lot tested as competitors. As to the general blooming of the two varieties, the *Mont Blanc* was too far behind for real consideration. A description of *Burpee's Earliest of All* excepting as to color will correctly apply to this new pea."



Burpee's Earliest White

comes into full bloom forty-five days after the seed is planted in the open ground. The dwarf plants, sixteen to twenty inches high, are clad in rich, dark-green foliage and carry a profusion of the *pure white flowers* borne upon strong stems six to eight inches long. Each stem has two or three of the fully-expanded, well formed flowers, of good size and placed close together.

Burpee's Earliest White is not only as *extremely early* but is so *just as hardy* as the famous pink- and white *Burpee's Earliest of All*. It has a *hard seed*,—and is really the only *clear white Sweet Pea* that has! This insures a better stand, stronger and more thrifty plants.

Burpee's Earliest White will be welcomed by florists for forcing, because there is no other variety so *quick growing* or *earliest blooming*, excepting only *The Re-Selected Burpee's Earliest of All*,—the earliest "pink and white." Like the latter, the plants under glass begin to bloom freely when only twelve inches high and continue to grow and flower *profusely* until, when six or eight feet tall, they reach the top of the greenhouse. The plants can then be cut back, if desired, and will make an equally vigorous second crop with! All florists know, of course, that the regular varieties of Tall Sweet Peas are of no value whatever for forcing,—it early flowers are desired.

Burpee's Earliest White is sold only in its original sealed packets,—and only direct to planters,—none to other seedsmen. The seed is *abundantly packed* and every seed should germinate. Per pkt. of 40 seeds, 25 cts.; seven pkts., 5 pkts. for 75 cts. net. Half size 14 cts. Per pkt. 20 seeds, 15 cts.; 2 pkts. for 25 cts.; 10 pkts. for 75 cts. net.

Burpee's "Blue List" for 1906 is now ready to mail. This is our complete catalogue of wholesale prices for the choicest flower seeds for florists and the finest vegetable seeds for market gardeners. Any florist or market gardener who does not receive a copy by February 1st, should apply for same immediately.

W. ATLEE BURPEE & CO.,

PHILADELPHIA.

SEED TRADE.

The dwelling house of W. R. Bishop, seed merchant, Burlington, N. J., was damaged by fire on the 21st inst. to the extent of \$800.

Conrad Appel's Report.

Conrad Appel's Darmstadt report on the new crop of German tree seeds is as follows:

Quercus pedunculata.—A very small crop, and prices have been higher than years before. Quality satisfactory.

Quercus Robur had no crop at all; however, there are offered under that mark common oaks, therefore the purchaser must be very careful in buying.

Quercus rubra had a plentiful yield, and best quality is offered this season at a low figure.

Fagus sylvatica suffered under unfavorable conditions of the weather, but in December, beech's harvest month, the dry, cool weather has been of advantage for the saving of the seed.

Most of the other deciduous tree seeds gave poor results only, so the two sorts of Acer, Norway maple and sycamore, alder and white smooth alder, birch, haws, ash and the two limes (large and small-leaved). Hornbeam are plentiful. Broom and furze had a small crop only, and elms are a perfect failure this year.

Regarding the yield of the evergreen tree seeds, *Pinus strobus* delivered this year a good crop of cones, but the produce of seeds were only small, and seeds of highest growth will surely be in strong demand.

Pinus cembra is in good quality, harvested and on the market at low prices.

Abies pectinata had a good average crop, both in quantity and quality.

The crop of *Pinus sylvestris* is only beginning just now, and I expect it will only yield an average crop.

Picea excelsa has had a crop only in districts that are remote from here, and it is apparently quite a good result, for which reason prices for good quality are low.

Larix Europæa had only a small crop in Tirol, and I expect it will experience a heavy demand this season.

The other evergreen seed trees, as *Pinus Austriaca*, *Pinus maritima*, *Pinus montana*, *Pinus laricio*, for which kinds the demand is only small, had a satisfactory crop, and are offered at normal prices.

CATALOGUES RECEIVED.

Dingee & Conard Co., West Grove, Pa., "1906 Guide to Rose Culture." Roses in rich colors on a gold background adorn the cover, and handsome colored plates of roses, chrysanthemums and hardy phloxes are inserted, making an attractive as well as useful manual.

Thomas Meehan & Sons, Inc., Germantown, Philadelphia, Pa., "Ornamental Hardy Plants of the Better Class." A spray of "White Fringe" forms the cover attraction and very sweet and pretty it is. The contents are of the right kind and written in just the vein to make the garden owner long for the spring time to come.

H. E. Fisher & Son, florists, Worcester, Mass., will occupy the east side of the new street railway waiting room on Park street, about February first.



DREER'S Reliable FLOWER SEEDS

New crops of almost all varieties are now in hand
and early orders are solicited

Among the many Flower Seed specialties which we handle none receive closer attention than we know our stocks of these to be the finest procurable at any price. We offer below a few of the most important kinds. For full list see our catalogues for 1906, free on application.

ASTERS

	Tr. pkt.	Oz.
Superb Late Branching, Pure white .....	.25	\$1.00
" " " Shell pink .....	.25	1.00
" " " Rose pink .....	.25	1.00
" " " Deep purple .....	.25	1.00
" " " Lavender .....	.25	1.00
" " " Crimson .....	.25	1.00
" " " Finest mixed .....	.25	.75
Daybreak .....	.40	2.50
Purity .....	.40	2.00
Lavender Gem .....	.40	2.00
Snowdrift .....	.50	4.00
White Fleece (New) .....	.50	
Comet, carmine .....	.30	1.50
Comet, dark blue .....	.30	1.50
" " light blue .....	.30	1.50
" " Peach-blossom pink .....	.30	1.50
" " deep rose .....	.30	1.50
" " finest mixed .....	.30	1.25
" " Giant white .....	.30	1.25
Comet, Giant, The Bride .....	.40	1.25
" " Branching .....	.25	1.00
Queen of the Market, white .....	.20	.60
" " lavender .....	.20	.60
" " pink .....	.20	.60
" " bright rose .....	.20	.60
" " purple .....	.20	.60
" " crimson .....	.20	.60
" " mixed .....	.15	.50

NOW IS THE TIME to start such things as Ageratum, Begonias, Cobaea, Dracena, Lobelia, Musa, Nicotiana, Petunias, Salvia, Stocks, Smilax, Verbena, Vinca, etc.

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Splendid Assortment of Coleus, \$2 per 100.

The Novelties { **SENSATION** (English) 25cts. \$2.50 per dozen.
DUNEIRA, Giant-leaved 10cts. 1.00 " "

Complete Assortment of Bruant's Giant type of **Heliotrope**—in perfect health, \$3 per 100, \$25 per 1000.

Dwarf French **Lantanas**, brilliant colors, \$3 per 100, \$25 per 1000.

Our Trade List describes the **NEW CHRYSANTHEMUMS** of the year, with records made. We have them all.

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Per 100
Rose Geranium 8, 2 1/4 in. \$18.00 per 1000. \$2.00
Ageratum Gurney, P. Pauline and others 2.00
 " " 2 1/4 in. 2.00
 " " R. C.60
Fuchsias all the leading varieties, 2 1/4 in. 3.00
Heliotrope, all dark, 2 1/4 in. 3.00
Sweet Alyssum 2 1/4 in. 2.00
Lobelia, 2 1/4 in. 2.00
Alternanthera, rooted cuttings.50
German Ivy, all rooted cuttings.50
English Ivy, extra fine rooted cutting. 1.50
 The World and all of Coleus R. C. \$1.00 per 100.
 \$3.00 per 1,000. Cash must accompany the order.

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We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

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Over one million plants ready from our Famous Strain None better. \$1.50 per 500, \$2.50 per 1000

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DOUBLES—Separate colors, as above, \$4.50 per 100; **Mixed Colors**, \$3.75.

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Bay and Box Trees

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Nephrolepis Piersoni Elegantissima

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CLUB AND SOCIETY NOTES.

The annual installation feast of the New Jersey Floricultural Society will take place on February 2, at 8 o'clock, in Orange, N. J.

The Rhode Island Horticultural Society held its annual meeting on January 17, and reports showed a prosperous year. It was voted to assess each member \$1 for yearly dues. Marcus M. Burdick was re-elected president, and Charles W. Smith, secretary-treasurer.

The second lecture in the American Institute course, New York City, was given January 24 at 3.30 p. m. in the lecture room of the Institute, Berkeley Lyceum, by George T. Powell, President of the Agricultural Experts Association, who discussed and illustrated "The Propagation of Trees and Plants."

The Cincinnati Florists' Society will have a special exhibition of roses on February 10, 1906. Prizes will be offered as follows: Best vase American Beauty, 12 blooms, 1st prize, \$10.; 2d, \$6.; 3d, \$4.; Best vase Bridesmaid, Bride, Meteor, Perles des Jardins, Golden Gate, Ivory, Liberty, any other variety, 25 blooms, 1st prize, \$4.00; 2d, \$3.00; 3d, \$2.00, respectively. Best display of violets, 1st, \$6.; 2d, \$4.; 3d, \$3.; best general display, \$10.00

At the meeting of the Gardeners' and Florists' Association of London, Ont., on January 13, the following officers were elected: President, R. Dengate; vice-presidents, W. Trott, A. McInnes; secretary, T. Wistrow. Dissatisfaction was expressed that government grant to vegetable growers of Ontario should have been monopolized by the Toronto growers, and the society have laid their claims before the Hon. A. Beck, M. P. P.

The Horticultural Society of New York has arranged for a Carnation Night on February 14, in the rooms of the American Institute, New York. Exhibits of novelties are especially solicited and there are money prizes offered for displays in the several color classes. Robert Craig of Philadelphia, will address the Society at 8 p. m. in the evening on "Carnations, Old and New." Any one having blooms to exhibit should address Leonard Barron, 306 West 119th Street, New York City.

The Nebraska State Horticultural Society held its annual meeting at Lincoln, Jan. 16, 17 and 18. Officers were elected as follows: President, J. H. Hadkinson of Omaha; vice-presidents, H. S. Harrison of York; C. H. Green of Fremont; directors, W. G. Swan of Tecumseh; A. J. Brown of Geneva; J. A. Yager of Fremont; secretary to be elected by the board.

The display of cut flowers was remarkably good. Prizes were awarded to L. Henderson of Omaha; Frey & Frey of Lincoln; and E. W. Dole of Beatrice. The summer meeting of the society will be held in Omaha in July.

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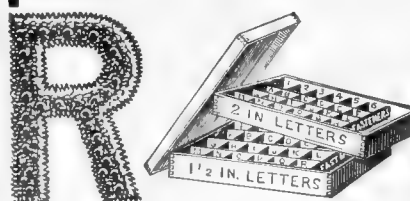
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1226 East 4th Street, PHILADELPHIA

Store Closes 8 P. M.

White Lilacs White Violets

75c per bunch

\$1.50 per hundred

**Valley, Cattleyas,
Farleyense (Cut and Plants)**

Samuel S. Pennock
The WHOLESALE FLORIST OF **PHILA.**

1612-1618 Ludlow Street. Store closes 8 P. M.

WIETOR BROS.

Wholesale Growers of

CUT FLOWERS

51-53 Wabash Ave., CHICAGO, ILL.,

In writing advertisers, mention Horticulture

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

A Daily Shipment

From 40 to 60 Growers

We can and will take care of your Cut
Flower and Supply Wants to advantage

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CHICAGO
CATALOGUE FREE

PETER REINBERG
WHOLESALE

CUT FLOWERS

51 Wabash Av., Chicago, Ill.

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WHOLESALE FLOWER MARKETS TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO Jan. 23	ST. LOUIS Jan. 23	PHILA. Jan. 23	BOSTON Jan. 25
ROSES				
Am. Beauty and Edgely Fan. & Sp.	40.00 to 50.00	40.00 to 50.00	60.00 to 75.00	40.00 to 60.00
Extra.....	25.00 to 40.00	25.00 to 35.00	40.00 to 50.00	20.00 to 30.00
No. 1.....	10.00 to 24.00	10.00 to 20.00	20.00 to 30.00	12.00 to 15.00
Lower grades.....	6.00 to 8.00	5.00 to 8.00	10.00 to 12.50	4.00 to 8.00
Bride & 'Maid—Fan. & Sp.....	8.00 to 10.00	6.00 to 8.00	10.00 to 15.00	8.00 to 12.00
Extra.....	7.00 to 8.00	4.00 to 5.00	1.00 to 12.00	6.00 to 8.00
No. 1 and Lower gr.....	5.00 to 6.00	..... to 3.00	8.00 to 10.00	2.00 to 6.00
Liberty, Fancy.....	8.00 to 10.00	6.00 to 8.00	20.00 to 30.00	12.00 to 25.00
Ordinary.....	4.00 to 8.00	4.00 to 5.00	10.00 to 15.00	8.00 to 12.00
Richmond, Fancy.....	8.00 to 12.00	..... to 10.00	10.00 to 20.00	25.00 to 50.00
Ordinary.....	4.00 to 8.00	4.00 to 8.00	12.00 to 15.00	8.00 to 12.00
Golden Gate, Fancy.....	8.00 to 10.00	6.00 to 8.00	..... to 12.00	8.00 to 12.00
Ordinary.....	6.00 to 8.00	3.00 to 5.00	4.00 to 6.00	2.00 to 6.00
Chatenay, Fancy.....	10.00 to 12.00	6.00 to 8.00	15.00 to 20.00	8.00 to 10.00
Ordinary.....	6.00 to 8.00	3.00 to 5.00	10.00 to 12.00	2.00 to 4.00
CARNATIONS				
Fancy.....	3.00 to 5.00	3.00 to 4.00	3.00 to 6.00	3.00 to 4.00
Ordinary.....	1.50 to 2.50	1.50 to 2.50	2.00 to 3.00	1.50 to 2.00
MISCELLANEOUS				
Cattleyas.....	40.00 to 50.00	..... to 50.00	60.00 to 75.00	40.00 to 50.00
Cypripediums.....	12.00 to 16.00	..... to 15.00	15.00 to 20.00	12.00 to 15.00
Lily of the Valley.....	3.00 to 4.00	..... to 3.00	3.00 to 5.00	2.00 to 4.00
Violets.....	.75 to 1.50	.40 to .50	.50 to 1.00	.50 to .75
Tulips.....	..... to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00
Romans Hya., Paper White, Nar.....	3.00 to 4.00	1.50 to 2.00	2.00 to 3.00	1.00 to 2.00
Daffodils, Trumpets.....	4.00 to 5.00	..... to 5.00	5.00 to 6.00	2.00 to 4.00
Mignonette.....	6.00 to 10.00	2.00 to 6.00	3.00 to 5.00	2.00 to 4.00
Adiantum Cuneatum.....	..... to .75	..... to 1.00	..... to 1.00	.75 to 1.00
Croweanum.....	..... to 1.00	..... to 1.00	1.50 to 2.00	..... to 1.50
Smilax.....	12.00 to 15.00	12.50 to 15.00	12.50 to 15.00	8.00 to 12.00
Asparagus Plumosus, strings.....	40.00 to 50.00	25.00 to 50.00	50.00 to 75.00	50.00 to 75.00
" & Sprengeri, bunches.....	30.00 to 35.00	25.00 to 30.00	50.00 to 75.00	50.00 to 75.00

J. A. BUDLONG

37-39 Randolph Street, CHICAGO

Roses and
Carnations
A Specialty.....

WHOLESALE
GROWER of

CUT FLOWERS

PHILADELPHIA CUT FLOWER CO.

Wholesalers of Cut Flowers

1516 AND 1518 SANSOM ST.

VICTORY

The most brilliant scarlet carnation. Requires only ordinary culture. Is a fancy in the fullest sense of the word and wholesaled at \$25.00 per 100 at Christmas.

Cut Flower Market Reports.

FAVORABLE WEATHER
BUFFALO brought on the stock in good form, and a good week's business was done. White flowers were much in demand and cleaned up well. Carnations, tulips and bulbous stock were had in abundance and moved rapidly. Beauties were scarce, although there was no special demand, while select Liberties, Richmonds, Bridesmaids and Brides were sold at sight. There was a good demand for violets, lily of the valley, mignonette, and sweet peas.

CINCINNATI Continued dark weather has lessened the supply of cut flowers and really first-class stock is difficult to obtain. Roses and carnations especially are showing the bad effect produced by the lack of sunshine. Judging from the appearance of the plants there will not be anything like a surplus of roses for some time to come. Business continues brisk and consequently prices are near the top notch. A few good sweet peas have arrived but not in sufficient quantities to meet the demand. The quality of violets was never better and vast numbers are sold each day. There is not a great variety of flowers in the market just now and anything that might be termed a novelty is quickly snatched up at a good figure. The storemen say, "Why don't you grow this and that?" The grower replies, "You won't pay the price when we do grow them;" and so it goes, we have roses, carnations and a little bulbous stock until we are anxious for a change.

LOUISVILLE The conditions of business the previous week were very good. Carnations had an enormous demand, which was beyond the supply. The quality remains good. Roses have had a great demand, the quantity and condition of stock being up to expectations. Lilies of the valley find a very good demand. Narcissus, hyacinths, and other seasonable stock move satisfactorily.

BELATED MARKET REPORT.

Christmas business in Des Moines, Ia., as summed up from a personal canvass of the various florists, was fully 25 per cent greater than last year. This, in view of the fact that only a short time before Christmas, one of the most elaborate flower stores in the state of Iowa was opened in the most prominent location on the principal business street, makes the increase of business to each individual peculiarly gratifying. Another remarkable thing was that only a week

before Christmas fire had broken out in the basement of Lozier the Florist and destroyed his entire stock-in-trade, including a large supply of ribbons, also fixtures and all the appurtenances necessary to the conducting of business. The store room was so damaged that it was impossible to open up there again, but he finally succeeded in getting a new stand near the old one. This room too had suffered from fire, but the unsightly spots were hidden as best they could, and in the face of all these difficulties a better business was done than any Christmas before. Des Moines has not been considered a very lavish flower-buying town, but these facts would tend to show that it is improving. There was a good supply of all classes of flowers and plants, which sold for satisfactory holiday prices. The demand for azaleas, cyclamens and plants in bloom generally was good. The quality of holly was fair and it was pretty well cleaned up. Despite the fact that the price of green was high early in the month, enough was finally received at moderate prices to equal the demand. Christmas trees were a drug.

WM. TRILLOW.

NEWS NOTES.

Misses McNamary and Evans, recently with Messrs. Arnold, have started in business in Omaha, Neb., at 15th and Farnum streets.

C. W. Moeckel, florist, of Fitchburg, Mass., has been awarded damages in the sum of \$1,277 for injury to his greenhouses caused by the explosion of an oil tank near the Fitchburg gas house two years ago.

The Fernery was incorporated on January 11 in Baltimore, Md., with a capital stock of \$15,000, divided into 1,500 shares of \$10 each. The incorporators are Charles M. Ackerman, W. D. Allen, Frank V. R. Viers, W. M. Jordan, and H. W. Nice.

GREENHOUSES BUILDING AND PROJECTED.

Whitman, Mass.—Robert Moir, one house.

Portland, Me.—J. W. Minot & Son, one house 40x150; boiler house 20x65.

Queens, N. Y.—Cottage Gardens, one house 45 1-2x300, two houses each 45 1-2x355, one house 21 1-2x142, under contract with the Burnham Hitchings Pierson Co.

LIST OF PATENTS.

Issued January 16, 1906.

809,972. Grub-Puller. Samuel F. McGown, Dial, Ky.

810,313. Fruit Carrier. Charles A. Wellman, Ottumwa, Iowa.

810,344. Lawn Trimmer. Edward Pierce and Edward Laux, Burlington, Iowa.

A NOTABLE PHILADELPHIA EVENT.

The formal opening of the Samuel S. Pennock annex building took place on the 22d inst. A distinguished company of the leading florists of the vicinity, and many from distant points were present. John Westcott was the leading speaker, and in tracing Mr. Pennock's business growth and congratulating him, took occasion to lay before his audience a history of the development of the cut flower industry during the past fifty years. Mr. Westcott was at his best and did justice to his subject. Charles Fox, one of the oldest florists in Philadelphia, was among the speakers, and gave some interesting reminiscences of bygone days while congratulating the distinguished host on keeping his end up. Edwin Lonsdale's speech was something about marching up and then marching down again, and getting stuck in the middle. Your scribe could not make any sense out of it, but the audience seemed to take it all right. Henry F. Michell responded for the seed trade, and said that he was greatly pleased to see a branch of the business closely allied to his own growing and prospering so well. He admired Mr. Pennock especially for his obliging ways. He had never asked Mr. Pennock for a favor but it had been granted. Robert Kift responded for the horticultural press in his usual able manner. Mr. Martin, Mr. H. N. Willits and a number of others spoke. The host himself gave a most modest account of himself and was contented with stating the barest outlines of his career. But that's what we always expect of Mr. Pennock, and his understatements were all put to his credit.

The main floors of the combined buildings were tastefully decorated with foliage and flowering plants, cut flowers and evergreens. E. J. Fancourt was master of ceremonies, and acquitted himself in his usual able manner. The employees from the store, from Clarence J. Watson, the manager, down to the humblest, did their utmost to entertain the visitors.

BELATED MARKET REPORT.

The business of the late Mrs. A. B. Machlin of Harrisburg, Pa., will be continued by the estate, with Mr. C. Uttley in charge.

The William Graham Co. have moved from 108 South 13th St., Philadelphia, to the store occupied until recently by the Hugh Graham Co., having purchased the retail end of the latter concern which they will operate in conjunction with their own business. The Hugh Graham greenhouses on York Road will be run by Mr. Irwin, a brother-in-law of Mr. Graham.

FRANK MILLANG
 Wholesale Commission Florist
 COOGAN BUILDING
 55-57 W. 26th Street, NEW YORK
 Tel. 299 Madison Sq. Open 6 A. M. to 5 P. M.
 In writing advertisers, mention Horticulture

FORD BROTHERS
 48 West 28th Street, NEW YORK
FINE ROSES FANCY CARNATIONS
 A Full Line of ALL CUT FLOWERS
 Telephone, 3870 or 3871 Madison Square.

ALEX. J. GUTTMAN
 THE WHOLESALE
FLORIST
 OF NEW YORK
 Phone 1664-1665 Mad. Sq. 43 W. 28th St

WE HAVE A GOOD OPENING
 for a grower of lily of the valley and general bulbous stock. Would like to communicate with growers of good bulbous flowers. Can handle them at good prices. Also asparagus plumosus. Let us hear from you.

A. L. YOUNG & CO.
 Wholesale Florists
 Tel. 3559 Mad. Sq. 54 W. 28th St., New York

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A. MOLTZ
 Wholesale Florist
 55-57 W. 26th Street - NEW YORK
 Best Facilities for Supplying you at Lowest
 Daily Market Prices
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 A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
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ORCHIDS A SPECIALTY
 THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
 BEST BEAUTIES, METEORS, BRIDES AND BRIDESMAIDS
JAMES McMANUS, Telephone 759 Mad. Sq. 50 W. 30th St., New York

H. E. FROMENT Successor to Wm. Ghormley
 Wholesale Commission Florist
CHOICE CUT FLOWERS
 57 West 28th St. New York.
 Special Attention to Shipping Orders Telephones 2200, 2201, Madison Square Write for Current Prices

FOR GOOD PRICES AND CASH RETURNS
 send your flowers to
Phil. F. Kessler
 55 West 26th Street, New York.
 Telephone 2921 Madison Square.

GEORGE SALTFOED
 Wholesale Commission Dealer In
Cut Flowers
 CONSIGNMENTS DESIRED
 46 W. 29th Street, New York
 Tel. 3393 Madison Sq.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Jan. 20 1906	First Half of Week beginning Jan. 22 1906		Last Half of Week ending Jan. 20 1906	First half of Week beginning Jan. 22 1906
Roses			Carnations		
Am. Beauty and Edgeley fan and sp.	40.00 to 75.00	50.00 to 75.00	Fancy	4.00 to 6.00	4.00 to 6.00
" extra	35.00 to 50.00	35.00 to 50.00	Ordinary	2.00 to 4.00	2.00 to 3.00
" No. 1	25.00 to 35.00	25.00 to 35.00	Cattleyas	40.00 to 60.00	30.00 to 50.00
" Lower grades	10.00 to 15.00	5.00 to 15.00	Cypripediums	10.00 to 12.00	10.00 to 12.00
Bride & Maid, fan and sp.	10.00 to 15.00	12.00 to 15.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
" extra	6.00 to 10.00	8.00 to 10.00	Violets .....	.35 to .75	.40 to .75
" No. 1 and lower grades	2.00 to 6.00	3.00 to 6.00	Tulips	2.00 to 4.00	2.00 to 4.00
Liberty, fancy	15.00 to 25.00	14.00 to 25.00	Roman Hyacinth Paper White Nar.	1.00 to 2.00	1.00 to 2.00
" ordinary	3.00 to 10.00	3.00 to 10.00	Daffodils, Trumpets	3.00 to 5.00	3.00 to 5.00
Richmond, fancy .....	..... to 25.00	..... to 25.00	Mignonette	2.00 to 6.00	2.00 to 6.00
" ordinary .....	..... to 10.00	..... to 10.00	Adiantum Cuneatum	1.00 to 1.25	.75 to 1.25
Golden Gate, fancy	10.00 to 15.00	10.00 to 15.00	" Croweanum .....	..... to 1.50	..... to 1.50
" ordinary	2.00 to 6.00	2.00 to 6.00	Smilax	8.00 to 15.00	8.00 to 15.00
Chatenay, fancy	8.00 to 12.00	1.00 to 14.00	Asparagus Plumosus	25.00 to 35.00	25.00 to 35.00
" ordinary	2.00 to 6.00	2.00 to 8.00	" & Sprenger, bunches	15.00 to 25.00	15.00 to 25.00

JOHN YOUNG
 Wholesale **FLORIST**
 51 West 28th St., New York
 Telephone, 4463-4464 Madison Sq.
 Best Beauties, Brides and Bridesmaids.
 Lily of the Valley, Orchids and
 Lilies. Renowned Cottage
 Garden Carnations.

Edward C. Horan
 Wholesale Florist
 55 WEST 28th ST.
 Tel. 1462 1463 Madison Sq. New York

TRAENDLY & SCHENCK WHOLESALE FLORISTS

Furnish best stock at fair prices all the year round Send for quotations on fall orders
 Tel. 798-799 Madison Sq. 44 West 28th Street, New York City

FLORISTS OUT OF TOWN

Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in PLAIN BOXES, WITH OWN TAGS in best manner by

Young & Nugent
 42 W. 28th St., New York

In writing to Advertisers kindly mention Horticulture



Fancy Ferns

\$1.25 per 1000
Discount on Regular Shipments

Wholesale Florists
30 and 40 Miami Ave., DETROIT, MICH.

Michigan Cut Flower Exchange

WM. DILGER
Manager

Charles Millang

50 West 29th St., New York City

Cut Flowers on Commission

A Reliable Place to Consign to or order from
Telephone: 3860-3871 Madison Square

ORCHIDS AT ALL SEASONS

WM. STUART ALLEN CO.

Commission Merchants in Cut Flowers

53 WEST 28TH STREET, NEW YORK

Telephone 356 Madison Square

J. B. Murdoch & Co.

Wholesale Florists

FLORISTS' SUPPLIES

545 Liberty St., PITTSBURG, PA.

Long Distance Phone 1435 Court.

Bonnot Bros.

Wholesale Florists

55 and 57 W. 26th St., NEW YORK
Cut Flower Exchange Tel. 830 Madison Square.

OPEN 6.00 A.M.

AN UNEQUALED OUTLET FOR COMMISSIONED FLOWERS

The Reliable Commission House

Richmond Roses and Rich Flowers
of all varieties

JOS. S. FENRICH

48 W. 30th Street, New York

Tel. 324-325 Madison Square

JULIUS LANG

Wholesale Florist

Consignments received, sold well
and returns made promptly.

53 WEST 30th ST., NEW YORK

Telephone, 280 Madison Sq.

ESTABLISHED 1872

JOHN J. PERKINS

WHOLESALE and COMMISSION FLORIST

115 W. 30th St., New York

Tel. No. 956 Madison Square

Wanted.—A few more reliable growers of
Carnations and Violets. Quick returns and
highest prices.

Established 1891 BUY FROM ME
SHIP TO TRY

ALFRED H. LANGJHAR

All Choice Cut Flowers in Season

55 West 28th St., New York

Telephone 3024 Madison Square.

**CARNATIONS
AND ROSES**

Pittsburg Cut Flower Co., Ltd.

504 Liberty Ave., Pittsburg, Pa.

Cut Flowers

BOSTON'S BEST
ALL VARIETIES

SHIPPED TO ALL POINTS

Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates

N. F. McCarthy & Co.

84 HAWLEY ST.

Tel. Main 5973

BOSTON

Headquarters in Western New York
FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.

BUFFALO, N. Y.

Give us a trial. We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.40 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS

NEW CROP SOUTHERN WILD SMILAX \$3.50 and \$7.00 per Case.

Headquarters for all **FLORISTS' SUPPLIES**, Wire Designs Cut Wire, Letters,
Immortelles, Cycas Leaves, Wheat Sheaves, Ribbons, Corrugated Boxes, etc.
LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO.

8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main 2618

WHOLESALE FLOWER MARKETS.—PER 100. TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	Jan. 23		Jan. 22		Jan. 23		Jan. 22	
ROSES								
Am. Beauty and Elgely. fan and sp.	50.00	to 60.00	.....	to 60.00	50.00	to 60.00	40.00	to 50.00
" extra.....	30.00	to 40.00	.....	to 40.00	30.00	to 50.00	25.00	to 30.00
" No. 1.....	.....	to 25.00	.....	to 25.00	15.00	to 25.00	12.50	to 15.00
" Lower grades.....	10.00	to 15.00	.....	to 8.00	8.00	to 15.00	.....	to 5.00
Bride and Maid, fan. and sp.	.....	to 10.00	.....	to 12.00	12.00	to 15.00	12.00	to 15.00
" extra.....	6.00	to 8.00	.....	to 6.00	4.00	to 10.00	5.00	to 8.00
" No. 1 and Lower gr	3.00	to 5.00	.....	to 12.00	12.00	to 15.00	12.50	to 20.00
Liberty, fancy.....	12.00	to 15.00	.....	to 12.00	5.00	to 12.00	6.00	to 8.00
" Ordinary.....	8.00	to 10.00	.....	to 15.00	.....	to 12.50	12.50	to 20.00
Richmond, Fancy.....	.....	to 10.00	.....	to 10.00	10.00	to 12.00	.....	to 8.00
" Ordinary.....	.....	to 10.00	.....	to 10.00	10.00	to 12.00	.....	to 8.00
Golden Gate, Fancy.....	.....	to 10.00	.....	to 6.00	6.00	to 10.00	.....	to 5.00
" Ordinary.....	6.00	to 8.00	.....	to 10.00	.....	to 12.50	12.50	to 15.00
Chatenay, Fancy.....	.....	to 10.00	.....	to 6.00	.....	to 6.00	6.00	to 8.00
" Ordinary.....	.....	to 10.00	.....	to 6.00	.....	to 6.00	6.00	to 8.00
CARNATIONS								
Fancy.....	3.00	to 6.00	.....	to 4.00	3.00	to 5.00	3.00	to 5.00
Ordinary.....	3.00	to 4.00	.....	to 2.00	2.00	to 3.00	1.25	to 2.00
MISCELLANEOUS								
Cattleyas.....	.....	to 50.00	.....	to 25.00	.....	to 25.00	.....	to 25.00
Cypripediums.....	.....	to 4.00	.....	to 4.00	3.00	to 4.00	2.00	to 4.00
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Violets.....	.75	to 1.50	1.00	to 1.50	.50	to 1.00	.50	to 1.25
Tulips.....	3.00	to 5.00	2.00	to 3.00	3.00	to 4.00	2.00	to 4.00
Roman Hyac.: Paper White Nar.....	3.00	to 4.00	2.00	to 3.00	2.00	to 4.00	2.00	to 4.00
Daffodils; Trumpets.....	.....	to 1.00	.....	to 4.00	.....	to 3.00	3.00	to 5.00
Mignonette.....	.....	to 1.00	.....	to 4.00	2.00	to 4.00	2.00	to 4.00
Adiantum Cuneatum.....	.....	to 1.50	1.00	to 2.00	.50	to 1.00	.75	to 1.00
" Crowcanum.....	.....	to 1.50	.....	to 1.25	1.25	to 1.50	.....	to 1.25
Smilax.....	.....	to 15.00	12.50	to 15.00	12.00	to 15.00	12.50	to 15.00
Asparagus Plumosus, strings.....	.....	to 50.00	25.00	to 50.00	40.00	to 50.00	30.00	to 50.00
" & Sprenceri, bunches.....	.....	to 35.00	25.00	to 50.00	25.00	to 50.00	20.00	to 50.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - - BOSTON

E. A. BEAVEN

Wholesale Dealer in

SOUTHERN WILD SMILAX

and Florists' Hardy Decorative Supplies.
New crop now ready in limited quantities
EVERGREEN, ALA.

Decorating Evergreens, etc., at Wholesale

Wild Smilax, Palmetto and Cycas
(fresh cut), Palm Leaves, Galax, Leucothoe, Ferns and Mosses, Leaf Mold,
Orchid and Azalea Peats.

Everything in Season.

THE KERVAN COMPANY

20 West 27th St., New York.

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GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for
Florists.
Mineralized Rubber Co., New York.

HARDY FERNS AND SUPPLIES.

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Wietor Bros., 51 Wabash Ave., Chicago.

Vaughan & Sperry, 60 Wabash Ave., Chicago.

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Wm. Murphy, 128 E. 3d St.

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Michigan Cut Flower Exchange, 38 & 40
Miami Ave. Wm. Dilger, mgr.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS, German and American

261 to 287 A St., - - BOSTON - - 20-22 Canal St.

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, etc.

We are in a Special Position to Furnish **"PECKY CYPRESS"**

Everything in PINE and HEMLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorn, - - CHICAGO
Tel. North 1626 and 1627

SPECIAL NOTICE TO GREEN-HOUSE MEN

As cold weather crowds your fires, and worries
your Hot Water Circulation

REMEMBER

that we can on short notice apply the

HOLLY-CASTLE ELECTRIC CIRCULATOR

and all your troubles will disappear. Then make
a note of the coal you save by

INDEPENDENT CIRCULATION

HOLLY-CASTLE CO., Engineers
49 FEDERAL ST., BOSTON, MASS.

New York.

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E. C. Horan, 55 West 29th St., New York.

Philip F. Kessler, 55 W. 26th St., New York.

Julius Lang, 53 West 30th St., New York.

A. H. Langjahr, 55 W. 28th St., New York.

James McManus, 50 W. 30th St., New York.

Chas. Millang, 50 West 29th St., New York.

Frank Millang, 55-57 W. 26th St., New York.

A. Moltz, 55-57 W. 26th St., New York.

John J. Perkins, 115 W. 30th St., New York.

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Pittsburg.

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A. R. Davis & Son, Inc., Purcellville, Va.

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THOMSON'S MANURE.

Wm. Elliott & Sons, 201 Fulton St.,
New York.

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Are You To Build? Going....

I am interested in a glass factory in Jersey. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted.

NOT IN THE TRUST.

Address

George C. Watson

1614 LUDLOW STREET Philadelphia, Penn.

Remember this factory is NOT in the TRUST and has a free foot

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Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active practice. SPECIALTY "Working on the Failures of Others."

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting
especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building

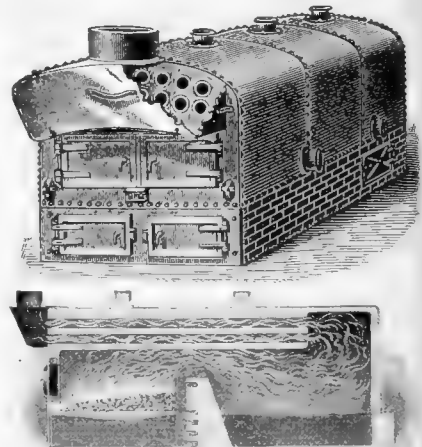
28 STATE ST., - BOSTON

Telephone, Main 58

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,
35 Erie Street, CHICAGO.



Boilers made of the best material, shell, firebox sheets and heads of steel water space all around front, sides and back. Write for information.

WANTS.

GOOD MEN

When you need good men,
skilled or unskilled, write:

**THOS. H.
BAMBRICK**

34 South 7th Street, Philadelphia

Help of all kinds, including that for
Florists, Nurserymen, Seedsmen and the
Horticultural trade generally.

WANTED—A first class orchid man to
take charge. Address, stating all particu-
lars, N. R. H., care Horticulture, 11 Ham-
ilton Place, Boston.

Cypress Greenhouse Material

Rebuilding greenhouses continually is not only expensive but tiresome. Start the year right. Build right,

Use cypress—the right kind of cypress, cypress that is open air dried.

We use the greatest care in selecting the cypress for our greenhouse material and can supply you with the right kind.

Write and let us tell you about it further.

JOHN C. MONINGER CO.—Chicago

117 E. BLACKHAWK STREET

POT MAKERS FOR 140 YEARS
A. H. HEWS & Co. Inc. CAMBRIDGE, MASS.
 FLORIST WARE OF EVERY KIND

CYPRESS SASH BARS
 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER
GREENHOUSES
 ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
 NEPONSET, BOSTON, MASS.
 In writing advertisers, mention Horticulture

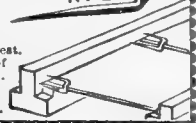
**Holds Glass
 Firmly**

See the Point **PEERLESS**

Glazing Points are the best.
 No rights or lefts. Box of
 1,000 points 75 cts. postpaid.

HENRY A. DREER,
 714 Chestnut St., Phila., Pa.

FULL SIZE
 No. 2



Greenhouse Material

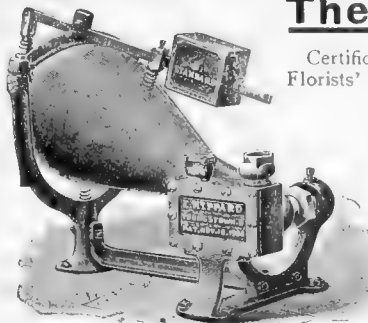
Ask for our Special Catalogue No. 554 describing
 Boiler Tubes, Boilers, Tubes, Sash, Lumber and Sup-
 plies of every kind from the Fifty Million Dollar St.
 Louis World's Fair.

CHICAGO HOUSE WRECKING CO.
 35th and Iron Sts. CHICAGO

**NOW IS THE TIME TO INSURE
 YOUR GLASS AGAINST DAMAGE
 BY HAIL.** For particulars address

John G. Esler, Saddle River, N. J.

The Standard Steam Trap



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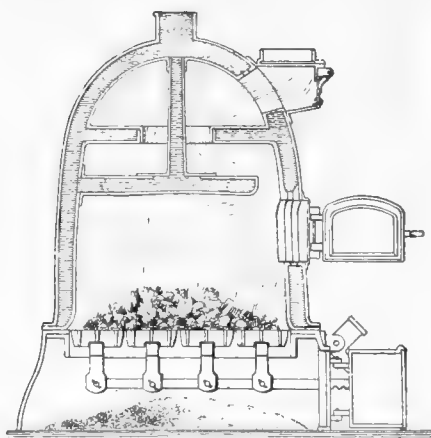
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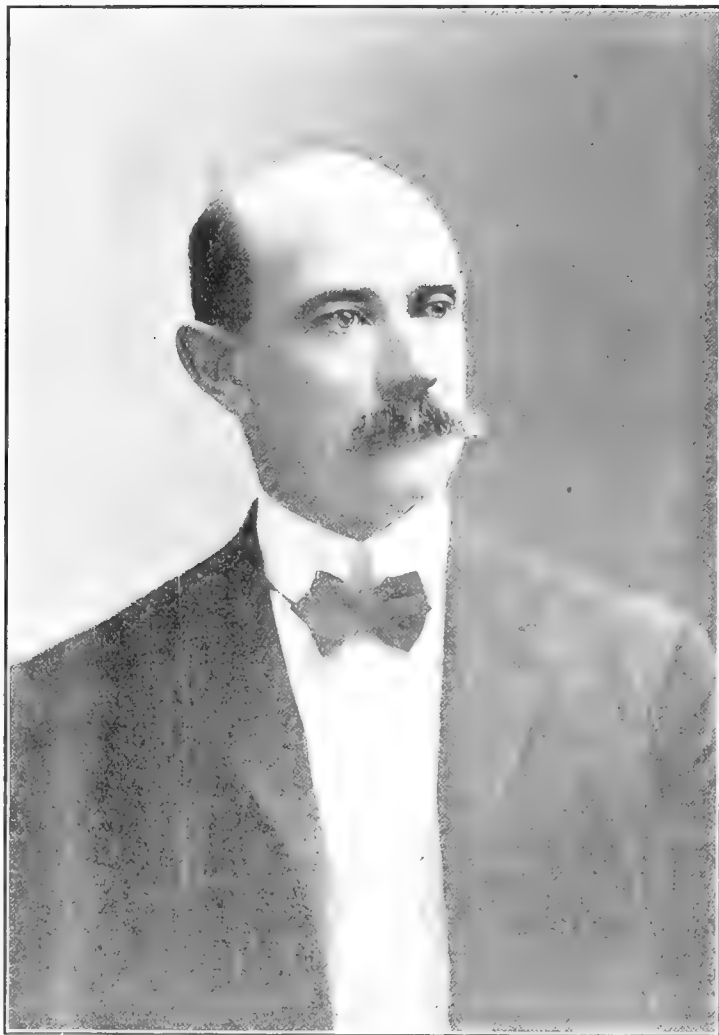
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HORTICULTURE

Vol. III.

FEBRUARY 3, 1906

No. 5



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LANDSCAPE GARDENER
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The variety has been on trial at Richmond, (3,000 plants), Brooklyn, (300 plants), Philadelphia, (1000 plants) and Toronto, (1000 plants).

Reports from the first two named places characterize the variety as being practically worthless, while from Toronto and Philadelphia favorable reports indicate that the variety is bearing out our claims for it.

Our own stock at Oakland is in elegant shape. An ex-

temely wet Summer necessitated the holding of stock in a semi-dormant condition after being housed Aug. 15th to Sept. 1st, thus making stock too late for the Fall shows. Since Dec. 1st we have been cutting grand blooms, and to prove our claims for the variety we invite all interested to come to Oakland and look it over. While it is a source of regret to us that the variety has not proven satisfactory in all places tried, we are satisfied that it will prove our claims for it in at least some places besides our own.

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Astilbe Davidii (new)	34
Campanula Persicifolia grandiflora	30
" " Moerheimi (new)	14
Chrysanthemum, "Shasta Dasy" per 1,000 seeds	50
Coreopsis lanceolata grand flora	10
" " "Golden Fleece" (new)	17
Delphinium Formosum	15
" " Coelestinum	30
" " Gold Medal Hybrids	50
Digitalis gloxiniaeflora, mixed	10
" maculata superba	15
Eupatorium Coelestinum	20
Gail ardia Grandiflora superba	15
Gypsophila paniculata	10
Helenium Grand, Cupreum (new)	10
Helianthus, finest perennal mixed	25
Heliopsis Pitcherianus semi-plenus (new)	17
Hollyhock, Double, in separate colors	20
" " mixed	20
Lychnis Chalcedonica	10
Platycodon grandiflorum	10
Polygonum compactum	10
Poppy, Orientale	20
" " Hybrids	25
" " Nudicaule, mixed	10
Pyrethrum hybridum, single	15
" " double	1.00
" " Uliginosum	30
Rudbeckia purpurea	25
Stokesia cyanea	25
Sweet William, single	10
" " double	10
Tritoma hybrida, mixed	50

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" Yellow	.35	2.25
" Nankeen	.35	2.25
" Pink	.35	2.25
" Rose	.35	2.25
" Red	.35	2.25
" Dark Red	.35	2.25
" Salmon	.35	2.25
" Orange	.35	2.25
" Mixed	.30	2.00
Double White	.65	5.00
" Yellow	.65	5.00
" Orange	.65	5.00
" Rose	.65	5.00
" Dark Rose	.65	5.00
" Dark Red	.65	5.00
" Red	.65	5.00
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Maceo	2 00	15 00
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HORTICULTURE

VOL III

FEBRUARY 3, 1906

NO. 5

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MONTCLAIR, N. J.**HORICUM****KILLS SAN JOSE SCALE**Made by **HAMMOND'S SLUG SHOT WORKS,** Fishkill-on-Hudson, N. Y.

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A New and Valuable Cyclamen



CYCLAMEN LOW'S SALMON

The accompanying illustration shows a new and beautiful cyclamen called Low's Salmon. The flowers are of a new and distinct shade of color so far as cyclamen persicum varieties are concerned. They are of the giganteum type and of clear salmon or salmon-rose color. It has been put on the market by Messrs. Hugh Low & Co., who say: "We have no hesitation in describing this as the finest cyclamen sent out during late years." The habit of the plant is vigorous though compact, as may be seen from the illustration and the blooms are produced quite clear of the leaves upon stiff straight stalks. Messrs. Low & Co. say that this is not merely a fancy sort, but a first-class market variety and we are of opinion that it will prove a valuable plant. The color of the flowers is such that it is said to show to even better advantage under artificial light than in the day time. It was shown by Messrs. Low before the Royal Horticultural Society recently and everyone admired the coloring of the flowers.

American Trees In Europe

Enclosing a letter from the Town Clerk of Glasgow, Scotland, conveying a note of thanks from the Corporation of Glasgow for a recent gift of a collection of American oaks and other trees and seeds for the Botanical Gardens there, our friend Mr. W. R. Smith writes us the following communication which will doubtless prove very interesting to the many tree lovers among our readers.

The enclosed is from the Corporation of Glasgow. I was the invited guest of the corporation at their annual inspection of parks, in company with Bailie Bilsland, now Lord Provost, and the very able and intelligent Superintendent of Parks and Curator of Botanic Garden, Mr. James Whitton, last summer. I then noticed the great dearth of American trees not one soft maple (*Acer dasycarpum*) a tree of which we have planted twenty thousand in the streets of Washington, and no oaks. On this subject I wish to make a remark; the white oak I could not find anywhere in the Botanic Gardens in Europe.

When in Berlin some time ago the Curator there put this question to me, "Do you know in America an oak called *Quercus albus*?" Startled at this question, I asked "What of it?" "That is what I want to know, what about it? I have gotten for many years beautiful seed, but never one will grow." The white oak and the soft maple seed cannot be exported. Acorns of the white oak and the seed of the soft maple begin to grow as soon as they reach the ground. By gathering the acorns, the root is broke off and the acorn is useless for propagating. It is the same way with the chinquapin (*Castanea pumila*). We missed our *Platanus occidentalis*, one or two plants of *P. orientalis*, our sweet gums, our sour gums, our tulip trees, our American elms in variety and many other interesting American trees and shrubs, that we are certain, under the judicious management of Mr. Whitton, shall have a fair chance as to the adaptability to the climate.

We sent seeds and plants of the *Salisburia* (Loudon), many years ago, suggesting this tree for the smoky climate of London. Smoke is Mr. Whitton's greatest bugbear and this tree, thriving so well, as you know, on the hillside of Boston's Public Grounds where the smoke is, of course, not as bad as the smoke in London and Glasgow, it is hoped will be as successful as that tree has been in Boston for over a hundred years.

I shall have something to say about the terrible disease that has attacked the larch. The question of heredity and the care necessary to select proper seed, will make an interesting theme for some future communication.

Yours very sincerely,

Harry H. Thomas

W. R. Smith

Cultivation and Care of Young Rose Stock

I presume that by now every successful grower has his rose stock started for another year and some potted in their first pots and that some of the earliest are ready for a shift into larger pots. If in two-inch pots a shift to three-inch pots is sufficient, and when potted greater care and attention to watering is essential. Do not over-water them; rather go over the benches two or three times a day giving attention to the dry plants, than to give them all a general watering whether they need it or not. Do not forget to syringe thoroughly every bright day and even on some days when there is no brightness. Syringe young stock often and thoroughly as the red spider does like to get in his work on young stock, and always bear the fact in mind that you are starting up young stock for another year's flowers and that whatever you omit to do now you will suffer from at flowering time next season. It is not often that I use Biblical phrases, but this one suits the case in hand that "whatsoever a man soweth that shall he also reap." So, also, if you start good stock and look after it properly you shall be cutting good flowers next season.

When repotting young stock from twos to threes is a good time to grade your stock for no matter how careful one is there are always some weak plants. Get these weak ones together in one part of the bench so you can give them a little more careful attention than is given the general lot. When potting is also a good time to add a little fertilizer to the soil; pure ground bone, pulverized sheep manure, blood and bone mixed, or separate, and lots of other fertilizers are used for this purpose. For myself I prefer blood and bone mixed. It comes in one hundred pound bags already mixed and a four-inch pot full to a bushel of soil is about right. In a few days after repotting you can almost see the stock growing.

The temperature in the plant houses can be raised a little, too, after repotting, or when well-rooted through in twos. A temperature for nights of sixty-two and days seventy to eighty with plenty of ventilation is about right, but watch the ventilators for any change in the weather. Do not let the plants get chilled or a cool draught strike them at any time or you will see an immediate retarding of growth. Plants in bench which have been given a partial rest for the last three weeks can be started up slowly by keeping them a degree or two warmer at nights and applying a little more water to the roots than we have been doing for the last month, but do not be in a rush with them; start them up slowly and you will cut more and better flowers than if two hasty with them.

If you intend to run a house or two of American Beauties over summer (and I will say there is always a good demand for good American Beauties and good prices for them in June, July, and part of August) now is a good time to get ready for them by cutting the plants down to fourteen or sixteen inches from the soil. No need to replant them in fresh soil; if your soil is a little soured give it a slight scratch over the surface and apply a top dressing of unslacked lime and that, with the drying out and rest they have had, will enable them to start out nicely. Don't start them too hastily; at first fifty-six to fifty-eight at night is enough for them and plenty of air during the day in cloudy or bright weather in a temperature of sixty-five to seventy will bring them along nicely. Syringe frequently in bright days and do not let the wood shrivel up or it will be all off. I will have more to say on this later on as the season advances.

Wm. Scott

Odontoglossums

Odontoglossum crispum and kindred species, *Pescatorei*, *Lindleyanum*, *triumphans*, *odoratum* and the many natural hybrids supposed to be the results of intercrossing of the species already named can be so successfully grown in New England, in fact are grown so well that some collections though perhaps not quite so extensive, and perhaps do not include such rare varieties, compare favorably with European collections.

They may be seen doing well under several methods of treatment; no two growers have exactly the same ideas, but to insure success a dry atmosphere in winter and a close atmosphere in summer should be avoided.

The low temperature in winter necessitating strong fire heat is as important a matter for consideration as the humid heat of summer. A fixed winter temperature is not advisable. Grown in a sunny position from September until early in March the temperature may be allowed to run up with sun heat but the atmospheric moisture should be maintained at the same time and in cold weather the night temperature may fall to 45 degrees Fahrenheit. It is maintained in zero weather by fire heat too much attention cannot be given to the maintenance of a close atmosphere night and day. Under these conditions pseudo-bulbs will not shrivel and lose their vitality. The moisture in the atmosphere will act as a safeguard against thrips, the worst insect pest of the grower's collection. "Eternal vigilance" is certainly the price of many *Odontoglossum* spikes.

The excessive humidity for a while in summer is trying to the plants. The heat alone could be remedied by the evaporation of water, but accompanied

as it generally is by humidity it is difficult to produce evaporation in an atmosphere already saturated.

At this time *odontoglossums* are liable to attacks of fungi which attack and cripple the young growth. This is not noticeable until some time afterwards when the apical portion of the first leaves which have been punctured refuses to expand naturally. The inner leaves become contorted giving the growth a crippled appearance. We at first attributed this to thrips, but noticing a rather rusty appearance on the leaves, we showed it to a well-known morphologist and microscopist who pronounced it fungi.

It may be that the spores gain entrance through the punctures made by insects, but it is more likely that the moist surface of the young growth offers just the right conditions for the growth of the spores as well as a convenient resting place. The remedy would be to keep as free a circulation of air around the plants as possible. Last summer we took out the glass entirely from the end of the north house nailing up cheese cloth in its place. The results, we thought, repaid the trouble.

The question of compost is one upon which there is a great diversity of opinion. Much may be said in favor of fern fibre, but a medium we have tried and can recommend is Belgian leaf-mould. Nearly all European growers use it either pure or in mixture with excellent results in each case.

James Hutchinson

Pollination

To explain the meaning of this word so that it may be intelligible to some, it may be necessary to remark that pollen is the fine powder which falls from flowers when they have arrived at a certain stage of maturity and are shaken by the wind, or it may be carried by insects from one flower to another.

Pollen is contained in a little sack called the anther. To the naked eye it appears only as a mere powder, but under the microscope it is found to consist of grains of uniform size and shape, in the same plant, but different in all the different species. Their color is usually yellow or brown, but in the *epilobium* and *polemonium* it is blue, and in the *mullien* red. One curious fact is worth recording, as showing how wonderfully nature, or more properly speaking the Creator, has provided against possible dangers. Thus moisture is peculiarly noxious to pollen because it bursts the tiny grains before they can perform their office, which I will notice further on, and for this reason so many flowers drop or close their petals when moisture prevails. The drooping of the snowdrop is a familiar example, and the *anagallis* or *pimpernel* is called the poor man's weather glass, because it closes its petals at the approach of rain.

The greatest observer of Nature, Linnaeus, remarked that flowers lose this state of delicate sensibility after pollen is gone. This pollen must be brought into immediate contact with the pistil which is the female organ of the plant, bearing the ovules, which when acted upon by the pollen become fruit and seed. As soon as the pollen unites with the ovules, fecundation, or the generative excitement of the rudimental principles of the seeds of plants and of the embryo of animals commences. This is the starting point in the life of the individual. In plants, the pollen must be brought into contact and union with the ovules before seed can be produced, and this is called pollination.

Self-pollination is when the pollen is conveyed to the pistils of the same flower, to pistils of other flowers on the same plant, or to pistils of other plants of the same variety which have been propagated by grafts, cuttings, &c. Cross pollination means the conveying of one flower to the pistils of flowers of plants of a different variety; it also means the transfer of pollen to the pistil of another plant of the same variety.

Pollination may be effected by natural agencies, as wind, insects, or birds, or by scientific, or artificial processes. It is by the latter that new and improved varieties are usually obtained with wonderful accuracies and success.

Some plants are self fertile, that is to say, have perfect male and female organs in the same flower, and these are capable of self-fecundation; others, called pistillate plants, are those which have only the pistils or female organs, and these remain infertile unless operated upon by the pollen of other plants.

Strawberries have many varieties which have the pistils only, and these will not produce fruit satisfactorily,

if at all, unless acted upon by the male pollen. In planting a strawberry bed care should be taken that the varieties used should not all be pistillate.

By experiments it has been established that sterility exists in a great variety of fruits, and one reason for their not producing is that they were not pollinated; and another fact exemplified is that the fruit produced by self-pollinated flowers is not so perfect as when cross-pollinated by pollen from another fruit, even of the same variety.

There is no more fascinating nor profitable part of horticulture than artificial cross pollination, and none so likely to contribute to the comfort and welfare of mankind, and even to the brute creation; he who succeeds in producing an improved grain or fruit is a benefactor, not only to his fellow man, but to all the animals that feed on the results of his labor and skill.

Before horticulture was a scientific pursuit this use of pollen was not taken much notice of; seedlings were raised without any reference to its effect, and if one variety proved of superior excellence it was by mere chance, but now the enterprising, enthusiastic and well informed horticulturist goes to work to improve varieties of fruit and grain, or to make changes in the habit of growth, form, and color of flowers by a system of artificial cross-pollination and selection with the most certain and beneficial results, not only to his own advantage, but to that of the whole community.

A. R. Gilbert

More About Two Troublesome Insects

In addition to the information about the two species of red spider given in a recent issue of *HORTICULTURE* I may now add the following: Hydrocyanic gas used at the rate of 1 oz. cyanide of potassium to each 1000 cubic feet, failed to kill either variety of the spiders. It did kill the white fly, green fly, scales, some mealybugs, saw bugs, snails and some angleworms, but all kinds of spiders and ants are as lively today as they have ever been. Some of the houses were dosed with the gas two nights in succession, but not a single spider was killed.

The damage done to plants by the gas was slight. Out of nearly six hundred plants of *phalænopsis* only about a dozen were damaged. *Cœlogyne cristata* suffered most and *Oncidium concolor* had nearly all its leaves disfigured. The damage in most cases was not noticeable until from three to ten days after the gas had been applied.

M. J. O'Keefe

Naugatuck, Conn.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

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WM. J. STEWART, Editor and Manager.

Boston and her visitors Boston has been honored by the attendance of a large number of the most enterprising and intelligent florists from remote points during the past week. Many had never visited Boston before and the historic riches and traditions of the city were intensely interesting to them. As Mayor Fitzgerald truly said, the effect of such a visit could not but make of everyone who participated, a better American. Come again and again.

Effects of the mild weather It is many a year since the eastern half of these United States have been treated to such a winter as we have had up to date. In the vicinity of Boston lawns are almost as green as when frost overtook them. Tips of rose branches still bear foliage and in sheltered sunny spots are actually growing while the young buds down the stem are swelling and ready to break out. However, we know not what a day may bring forth and by the time these lines are in print the face of nature may have undergone a change. It will be fortunate for the spring-flowering material if this unseasonable weather stays not too long.

The coming Rose Show The next important horticultural event will be the meeting and exhibition of the American Rose Society which is now but seven weeks away. Like the carnation show this also comes to Boston this year.

The wide diversity of types, in the outdoor and indoor, the commercial and amateur classes, which the extensive prize schedule provides for will make this exhibition something extraordinary, not to mention the great annual spring show of the Massachusetts Horticultural Society with which it is to be associated. The pilgrimage to Boston from all parts of the country on this occasion will be a large and representative one, for the Queen of Flowers has myriads of devoted subjects, and Boston's welcome will be a hearty one.

The farmer and the forest The agitation to secure government co-operation in the preservation of the remnant of the White Mountain forests gains strength every day and the prospects are fairly hopeful. Congress can be relied on to respond when evidences of a wide-spread popular demand for action on any special subject are forthcoming. The greatest drawback to accomplishing this is the apathy of the rural population.

To the average farmer the woods are an obstruction in the way of tillage and the first step in "improving" his land is to get rid of the forest. The advance in the value of wood as it grows scarcer will eventually bring the rural population to a realization of the need for its preservation after the mischief has been done and the loss irreparable. In the meantime it is as hard to get the farmer interested in forest preservation as to get Sydney Smith's proverbial joke into the understanding of a Scotchman.

Advancing the carnation's interests

The American Carnation Society has done a great deal and noble work in the development and improvement of the carnation during the years of its existence. The indications are that, like all organizations that aim to advance and not stand still on the glories of the past, efforts will be put forth to extend the activities of the Society on lines hitherto unmolested. To the really earnest seeker there are abundant openings and there will always be found plenty to engage the attention of those willing to work. A problem of vital interest to the carnation grower is how to raise the standard of price for cut blooms to where an adequate return for the production of high-class stock may be had all through the year. No better means to this end can be devised than frequent public demonstrations of the art such as the great Boston exhibition which has just closed. Educate the people away from the notion that the carnation is a "common" flower and educate them still further, by these displays of the higher grades, so that they will insist on having such when they buy and be satisfied to pay the difference in price.

Where the small exhibitor stands

Our New York contemporary, commenting on the address of President Fisher before the American Carnation Society, expresses its views as follows:

"Mr. Fisher believes that 'the most serious menace to the usefulness and progress of our society lies in the staging at our exhibitions of varieties that have little or no commercial value.' This, we presume, has a more direct bearing on novelties, and may be regarded, and well taken as a hint to those who think their 'own crow blackest,' and have faith enough in their belief to place their productions on view alongside those, measured by which they fall a long way short, and help generally to detract from the excellence of the exhibition as a whole. The rebuke is merited; and it should be heeded."

We cannot endorse these sentiments nor do we believe that Peter Fisher intended to be understood as rebuking a brother florist for having the audacity to place his productions on view alongside those of his more experienced and successful fellows. "Despise not the day of small things" is a bit of old-fashioned advice not out of place when considering the novelty classes in a professional exhibition. Here lies the best field of such a society as the American Carnation Society in its capacity as an educational instrumentality. Here the best of lessons may be learned through the opportunities for comparison—the lesson of humility and the lesson of courage to try again. The man with "his own crow blackest" is the stock from which will evolve the successful man of the future. His inferior exhibit will not detract from, but rather enhance, the perfect points of his competitor's product. Failures are as useful educators as are successes and the society will make a great mistake in adopting any such proscriptive policy as the above quotation seems to advocate.

OBITUARY.

John Reck, well known for many years as a leading florist of Bridgeport, Conn., died on January 24 at the German hospital in New York City, where he had undergone an operation for the removal of a leg. Mr. Reck received a kick from a horse last summer and, gangrene setting in, amputation was necessary. His constitution had been so weakened by the long illness that he was unable to survive the shock.

John Reck was a native of Nuremberg, Bavaria. He studied floriculture in the best private and commercial establishments, and was a thorough



JOHN RECK.

master of his art. On first coming to Bridgeport he took position as a private gardener, but later bought the floral business of Mr. Varvene, which he conducted until the time of his death, his son being latterly associated with him in business. Besides his son Carl, he leaves a widow and one daughter. Two other daughters died close together a few years ago.

The funeral took place on January 27, services being held at St. Augustine's Church, Bridgeport. Floral tributes were sent by every florist in the city, many of whom were present at the funeral.

Harvey Lyon, of the nursery firm of Comstock & Lyon, died in Silvermine on January 20, in his seventy-fourth year. Death resulted from a stroke of paralysis. Two daughters survive him.

A CORRECTION.

In the report of the Carnation Show last week the award to vase of 50 blooms, crimson—2d Bowker & Co., Cambridge, should be Backer & Co., Billerica. Also the award for vase of 50 blooms yellow varieties—1st Patten & Co., Billerica, should be Backer & Co., Billerica, with Eldorado.

CALIFORNIA NOTES.

W. M. Gabrielle, a gardener, 42 years of age, was struck by an electric car this week, sustaining a fracture of his skull and two broken ribs. It is thought he may recover.

J. F. Smalley, editor and publisher of the Northwestern Californian, which has been running here for about three months as a horticultural weekly devoted to the interests of the coast counties, was arrested this week on a charge of obtaining \$500 from Edwin H. Ives by false pretence. He is the son of P. J. Smalley of the St. Paul Dispatch.

The trial of D. W. Helm, a prominent horticulturist of California, for murder has resulted in his acquittal. He had shot a Japanese whom he caught stealing in his Pomona orange orchard and pleaded self defense. As a result of this trial orchardists are getting together for the purpose of having the law amended by the next Legislature so that fruit stealing will be made a felony.

The seasonable rainfall in Southern California is greater than last season at this date, but elsewhere throughout the state it is still considerably less. Growers find the weather conditions ideal from their view-point. Warm weather has continued all the week throughout the state and plowing and seeding has been resumed since the preceding all-week rain and the grain acreage is being materially increased the soil being so thoroughly saturated as to practically insure good crops.

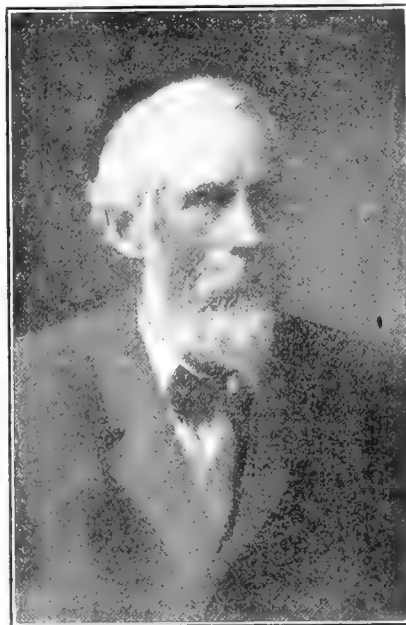


KENYON L. BUTTERFIELD.
President-elect Mass. Agricultural College.
See Issue of Jan. 27, Page 99.

PERSONAL.

Emanuel Tillman Mische has opened an office at Madison, Wis., for the practice of landscape architecture and has assumed executive connection with the new park system. During the past nine years Mr. Mische has been a principal assistant with Olmsted Brothers, Brookline, Mass.

Mr. Alfred Dimmock, the European representative of the Yokohama Nursery Co., under the direction of Messrs. Suzuki & Iida, 31 Barclay street, New York, has opened offices at Craven House, Kingsway, London, and will be pleased to receive his American friends and give them any information along horticultural lines that they may require during their visits in that city.



THE LATE J. A. BUDLONG.
See Issue of Jan. 27, Page 99.

THE "HOLLY-CASTLE" TRIP.

One of the most enjoyable as well as instructive incidents of the Boston Carnation Convention was the trip to Mr. Matthews' greenhouses at Dorchester on invitation of the Holly-Castle Company to see the electric circulator in operation. The party filled a special car which had been provided, and after a pleasant five-mile ride, the big greenhouse was reached and the business of demonstrating the workings of the circulator was promptly taken up. The manner in which the sluggish water responded to the little device the moment the power was turned on was a revelation to the visitors, all of whom followed the operation closely and watched its effects with intense interest. But one view was expressed by all—that the machine did all that was claimed for it. Refreshments were served and congratulatory speeches made.

"Who are you anyway?" said the peach, turning up its nose at the apple. "I want you to understand," retorted the apple, "that I came from a branch of the first family."—Boston Transcript.

NEWS OF THE CLUBS AND SOCIETIES.

TARRYTOWN HORTICULTURISTS DINE.

The annual dinner of the Tarrytown Horticultural Society took place at the Florence Hotel on Wednesday evening, January 24.

No dinners anywhere are served better than those at the Florence Hotel. The village is exceedingly fortunate in having a place of this kind, managed as well as Mr. John Hennessey manages the Florence. It was a well selected menu and elegantly served. Mr. Hennessey tried to keep it in character by obtaining butter from the buttercups that grow in the meadows by the brooks, milk from the milk-weeds of the fields and oysters from the oyster plant. He made a diligent search for the "ham tree" about which much has recently been said in New York City but it was unavailing. Its whereabouts could not be located although search was made in the sandwich forest and among the bread fruit and plum tart bushes. The dinner was as horticultural in character as a horticultural dinner could well be.

There were present about sixty members and guests. The tables were decorated with handsome roses and carnations, among the latter being some beautiful examples of the new variety, Winsor; for which Mr. F. R. Pierson recently paid a large price. Mr. Scott donated a beautiful Begonia Gloire de Lorraine, of his own raising—the most exquisite plant of this kind we ever saw.

After the feasting was over, Mr. Edward W. Neubrand, secretary of the society, called the diners to order and introduced Mr. Frank V. Millard as toastmaster, a position which he filled with great satisfaction to the society and his friends.—Tarrytown, N. Y., Record.

NASSAU CO. (N. Y.) HORTICULTURAL SOCIETY.

The first of the society's annual dinners was held in the parlors of the Oriental Hotel, Glen Cove, on Saturday, Jan. 27. The dinner was set for 4 p. m. Guests and members to the number of forty seated themselves to tables laden with sumptuous viands. After appetites had been appeased, songs were sung, speeches made and jokes cracked, and all present seemed bent on making the evening a most enjoyable one. This they certainly accomplished. There was dominant throughout the evening that spirit of good fellowship and kindly feeling. The spacious banquet room and tables were gayly and artistically decorated with the choicest of flowers. President Harrison presided. The guests included John McNichol, Lawrence, L. I.; J. White, New Rochelle; W. S. Fischer, J. Austin Shaw, J. W. Pepper, A. J. Guttman and J. Low, New York; George Burnett, Jersey City; and F. L. Atkins, Rutherford, N. J. The following gentlemen sent letters of regret: Alex. Wallace, New York; W. J. Stewart, Boston; John Scott, Brooklyn; and G. Anderson, S. Lancaster, Mass. At 9.30 p. m., the company dispersed to the strains of "Auld Lang Syne."

J. F. JOHNSTON.

NEWPORT HORTICULTURAL SOCIETY.

Tuesday evening last, the seventeenth anniversary of the Newport Horticultural Society was celebrated at the Clifton House, Bellevue avenue. About seventy sat down and partook of an excellent dinner well served by Proprietor Adams. During the progress of the dinner a very enjoyable musical program was rendered by Mr. Archie Stark, A. S. Swan, R. Rosson and Master John H. Allan, the latter, John T. Allan's young son.

When the waiters had cleared away the evidences of satisfied appetites from the tables, President MacLellan sanctioned the lighting of cigars and introduced Col. A. K. McMahon as toastmaster of the evening. In this capacity the colonel has few equals, and suffice it to say that he did the occasion justice. The list of toasts follows:

"The Horticultural Society," responded to by A. MacLellan;
 "The State"—Hon. R. S. Franklin;
 "The City"—Colonel Bliss;
 "Our Parks and Drives"—Bruce Butterson;
 "Florists"—Joseph Gibson;
 "Fruit Growers"—James McLeish;
 "Our Gardeners"—David McIntosh;
 "Amateurs"—B. F. Tanner;
 "Vegetables Grown Under Glass"—Arthur Griffin; "The Ladies"—Joseph S. Milne;
 "The Press"—Fred. L. Hammett.

The dinner, enjoyable as it undoubtedly was, was nothing compared to the exercises following. Every one left home with a determination to enjoy the evening, and after they got there they found out they could do nothing else even had they desired. The speeches were instructive, some of them, off-hand all of them. They covered everything bearing on horticulture and other kinds of culture "from 'way back." Some revealed the true cause of non-success, while others showed the road to fortune, and still others disputed good-naturedly between the two extremes.

"Auld Lang Syne" and "America" were sung at the close, and both songs were well sung—considering. Besides the members of the society there were present John S. Hay, representing H. A. Dreer; H. A. Folger, representing Bonnie Brae Nurseries; J. A. Thompson, representing The Thompson Fertilizer Co.; John H. Cox, representing R. Smith, Worcester, England.

Letters of regret at their inability to be present were read from Alex. Wallace, New York; President Butterfield, Agricultural College, Kingston; and W. J. Stewart, Boston.

AMERICAN ROSE SOCIETY.

The complete schedule of prizes offered for the Boston exhibition has been issued and mailed to members of the society. Copies may be had on application to the secretary. Rose growers will do well to consult it, as the list comprises nearly two hundred classes in cut blooms, pot plants, and decorative arrangement, many of these being special premiums of great value. WM. J. STEWART, Sec'y,
 11 Hamilton Place, Boston.

CARNATION NIGHT AT THE FLORISTS' CLUB OF PHILADELPHIA.

At the next meeting of the Florists' Club of Philadelphia to be held on Tuesday evening, February 6, 1906, Mr. A. M. Herr, Secretary of the American Carnation Society will review the Carnation Meeting recently held in Boston, and the committee in charge earnestly request those having some of the bread winners among Divine Flowers to forward same, or better still bring them to the meeting, so that the essayist may use them to illustrate his remarks; besides it will give those who were unable to attend the annual meeting an opportunity to examine them. Kindly forward same express prepaid in care of David Rust, Horticultural Hall, Broad street above Spruce street, Philadelphia, Pa., when they will be properly taken care of and staged. Kindly forward them in time so that they may reach destination not later than Tuesday afternoon, February 6.

EDWIN LONSDALE, Secretary.

FLORISTS' CLUB OF WASHINGTON.

The Florists' Club of Washington, D. C., will meet in the Scottish Rite Hall, 1007 G St., N. W., on Feb. 6th at 8 P. M. An exhibition of carnations and other flowers will be staged by local and out-of-town growers. An address by Prof. A. F. Woods, Pathologist and Physiologist of the Department of Agriculture, on the diseases of the carnation will also be a drawing card. As this gentleman is one of the best posted men on the subject in America, we expect to have a full house. Any grower desiring to make an exhibit at this meeting can send flowers to the Secretary at the above address, express charges prepaid, shipment so timed as to arrive in Washington on the morning of the 6th of February.

THE POSTAL PROGRESS LEAGUE.

This energetic organization has had printed and is distributing copies of an argument in behalf of the substitution of the old and simple United States Parcels Post of 1874, with its uniform rate, 8c. per lb. on all merchandise, for our complex, double-headed parcels service of today, with rates on some classes of merchandise 8c., on others, 16c. per lb. This proposition is strongly endorsed by the Post Office Department. If it commands your support, please have your local club or society adopt the following or a similar resolution and forward same to the chairman of the Committees on Post Offices and Post Roads of the United States Senate and House of Representatives:

Hon. Boies Penrose, Chairman Senate Committee; Hon. Jesse Overstreet, Chairman House Committee; also to other Senators and Representatives as may seem to you best, and to Postmaster-General George B. Cortelyou:—

"Resolved, That House Resolution 4549, of the Fifty-ninth Congress, providing for the consolidation of third and fourth class mail matter at the third class rate, one cent for two ounces, as recommended by the Post

Office Department, should be immediately enacted into law."

An overwhelming expression of public opinion is needed if this bill is to pass this winter. Copies of the argument may be had on application to James L. Cowles, Secretary, 346 Broadway, New York.

STATE FLORISTS' ASSOCIATION OF INDIANA.

The State Florists' Association of Indiana, held its annual meeting at Indianapolis, Ind., Jan. 9, 1906. The following resolutions were unanimously adopted:

Resolved, That we recommend that a national color chart be adopted by the S. A. F. & O. H.

Resolved, That a copy of these resolutions be forwarded to Mr. William J. Stewart, Boston, Mass., secretary of the S. A. F. & O. H.

F. SYDNEY SMITH, Sec.

CLUB AND SOCIETY NOTES.

At the meeting of the New York Florists' Club, on Feb. 12, C. W. Ward will deliver an illustrated lecture on carnations.

J. Woodward Manning of Reading, Mass., spoke before the Worcester County Horticultural Society, on Jan. 25, on "Ornamental Trees and Shrubs." Mr. Manning classified them according to their uses, and as he read the lists made brief mention of the prominent features of the most desirable.

The annual meeting of the Ottawa Horticultural Society (Can.) was held on January 10. Reports showed a membership of 248. A series of afternoon meetings for practical demonstrations was proposed. Samuel Short and J. F. Watson were elected president and secretary, respectively, for the ensuing year.

GARDEN DECORATION.

The lecture of Loring Underwood before the Massachusetts Horticultural Society on January 20 was illustrated with beautiful views of gardens, fountains and other out-door ornaments. In the course of his lecture he said:

"There is being awakened a realization of the fact that we ought to make more use of the gardens, apart from the pleasure of gathering and caring for flowers, and that is by making them out-of-door living rooms. No matter whether your garden is large or small, there is generally a cosey spot where a summer house would fit in nicely."

Another feature is a fountain, and to supply it with water need not be very expensive. A few fish in the pool keep it free from mosquitoes.

The speaker said that a garden seat is a welcome accessory, and showed some very handsome ones, though not necessarily costly. He spoke of them as making very desirable memorials for town squares and small parks, and showed one such, topped with a sun dial.

"Walls and terraces are to a garden," he said, "what the wall of a house is to its interior."

In closing the speaker said: "I want to call your attention to the great possibilities in this field of garden acces-

sories, as applied to the city back yards. These yards, as they exist for the most part in the homes of our well-to-do people, are a disgrace to the community. Neat some of them may be, but what ugliness is to be seen when one looks out of a dining room window and sees an assortment of clothes and clothes lines, ash barrels, garbage boxes and the like, all up and down the line. Let us hope that the ever increasing regard for our gardens as places that should give comfort and beauty combined will lead to a fuller appreciation of the proper use of garden accessories."

QUEBEC.

Kipling described Canada as "our lady of the snows," and in the winter his simile will apply, but in the summer he might also have characterized her as "our lady of the fruits and flowers," and thus would have given her a fair description. It is true our winters are long and sometimes severe, but the salubrious climate of spring, summer and autumn more than compensate for the length and severity of the winter.

The rapidity of growth of all vegetation is remarkable, especially in some seasons, and although it keeps the farmer and gardener busy to keep up with it and plant their crops promptly so that they will be ready to meet the weather favorable to their rapid development, it has a good effect in making the successful ones watchful and alert, because they must literally "make hay while the sun shines."

Agriculture and horticulture are by no means neglected in this Province. The bureau of agriculture is very efficient and does a great deal to encourage this most important industry. Numerous bulletins and pamphlets on various economic subjects are published and distributed free, agricultural and horticultural associations and farmers' clubs are liberally subsidized, popular lectures are employed, and a series of premiums for the best cultivated farms are awarded.

It is a mistake to suppose that the only agricultural and horticultural products of Canada are those of her northwest or upper Provinces. It is true that some fruits and flowers will not thrive with us as they do there, as, for instance, grapes and peaches, but those which do so cannot be beaten in quality; small fruits, such as strawberries, raspberries, blackberries and currants, are very superior. As to flowers, such as will grow have a peculiar richness of color and wealth of foliage which it would be hard to surpass.

The scenery around Quebec is very beautiful; it is doubtful whether the landscape seen from the citadel, taking into consideration the majestic St. Lawrence, the distant mountains in the extreme background, the gently sloping hills and occasional precipitous rocks, dotted with snug looking farmsteads, the long stretches of green meadows and the miles upon

miles of country that can be seen at a glance, can be much excelled in any part of the world.

The city is built upon a hill which rises precipitously from the St. Lawrence on its northern bank and the natural formation of rocks rendering it impregnable from the river front have earned for it the title of the Gibraltar of North America. On the north side of the city is an almost level plain which stretches for many miles.

The elevation of, what is called, the "Upper-town" is such that vistas of landscape can be seen from one end or other of every street, whether running east or west, north or south. A good deal of attention is paid to gardening. There are several well laid out parks and pleasure grounds, and one on the historical Plains of Abraham is projected. The grounds around the parliament house and city hall are tastefully planted with shrubs and flowers, and the lawns, well kept.

In the suburbs are very pretty residences of the leading citizens and government employees, each with its pretty garden or lawn. The most fashionable thoroughfare—the Grand Allee—is planted on each side with rows of American elms to commemorate the convention of the United States and Canadian forestry associations, held in Quebec in 1892 by the direction of Sir Henri Joly de Lotbiniere, the honorable gentleman who has done more than any one else to foster and encourage Canadian forestry and arboriculture. These trees bespeak by their robust growth, how well the work of planting was done, and will form, as the generations pass, a noble avenue worthy the entrance to the ancient city.

Further out on the St. Louis road are some fine residences and grounds, belonging to the affluent Spencer Wood. The official residence of the Lieutenant-Governor is a specimen of the landscape gardening and architecture of the eighteenth century, is in charge of a most efficient gardener and is always a picture of neatness and order, while the conservatories and fruit houses are replete with well-grown specimens.

Spencer Grange where resides Sir James Lemoine, Quebec's poet, historian and man of letters, is another place which may be described in the same way. Embowered in its groves of native trees and surrounded by pastures is the cozy dwelling in which a gentleman of such a sympathetic nature and who has contributed so much to the amusement and instruction of his fellows might well wish to pass his declining years.

In near proximity are the two cemeteries—Mount Hermon, Protestant, and St. Patrick's, Catholic—both admirably located and well kept.

Space will prevent me from describing at length more of the beautiful estates in this most picturesque locality, but if your readers who enjoy the beauties of nature, the relics of antiquity, a glimpse of the old world without crossing the Atlantic, or love to visit places of historic interest, will make a visit to old Quebec, they will be amply repaid for the little exertion necessary, and will doubtless return with favorable impressions as to this Canada of ours.

GEORGE MOORE.

CARNATIONS IN THE ROCKY MOUNTAINS.

(Read before the American Carnation Society.)

By J. A. Valentine, Denver, Colo.

Most of you who attend these conventions are conversant with the methods and conditions prevailing among carnation growers in general, but Chicago has probably been your western horizon, beyond which there has been little to induce investigation. The success or failure of any industry must be the result of the conditions met with, together with the efforts made to counteract or profit by them, as the case may be; and climate, together with soil and water, are the chief natural conditions to be considered by the florist. Other factors that make for success or failure are the transportation facilities (the distance that can be covered before flowers suffer severely in transit); the population within these transit limits; the ability and the disposition of this population to buy flowers, and the competition from within and without.

It is true that an overwhelmingly large proportion of the carnation business of the country is carried on in those states within a thousand miles of the Atlantic coast, yet beyond Chicago lies a territory of equal extent, which must be crossed and left behind before one reaches the eastern limits of the Rocky Mountain region. It is quite the common thing to admit that a grower will be handicapped by differences in soil and climate if he moves from England to Massachusetts, or from the Atlantic to Ohio or Indiana; yet the difference in conditions between any of these points is not so great as between either of these localities and the Rocky Mountain region. Except in a few limited areas the whole of this country east of Kansas and Nebraska is less than a thousand feet above sea level, and in the small elevated sections the differences in soil, humidity or precipitation are not extreme; but when we come to the Rocky Mountains we find a territory over 1500 miles long from north to south, and averaging 500 miles in width, with very few points less than 4000 feet above the sea. The air is dry, the rainfall meagre, and the sunlight brilliant. In short, the whole region is arid, and ordinary farm crops cannot be produced without artificial irrigation. It is almost impossible to convey by words an adequate idea of the drying effect of the air of this region. One must actually have seen and experienced the thing to be able to appreciate it. When I say that the annual rainfall of this region averages about ten or twelve inches, and that the rainfall here in Massachusetts or in Indiana is four times that, you will not get an adequate conception of the difference. After a rain here your

humid air prevents rapid evaporation, while with us nature at once proceeds to rob the soil of that which she has just bestowed, so that an inch of rain is not so effective as here. Dews and fogs are rare, almost unknown, except on mountain peaks, which are storm centres, as they are everywhere. To me one of the most striking evidences of the drying effect of the air is the fact that a man exercising in the hot sun of summer will seldom feel his underclothing cling to his body, the evaporation being rapid enough to nearly offset his perspiration. The temperature records of the weather bureau would make it appear that Denver and Indianapolis have about the same mean temperature both for July and for January, and that the highest and the lowest recorded temperature is nearly alike for both places; but owing to the dry air Denver has a great advantage in what is known as the "sensible temperature" both in hot weather and in winter. What I have said regarding the climate applies equally well to the whole of the arid region of which the Rocky Mountain country is but a part.

The natural growth of vegetation throughout this whole region is very scanty except upon the high mountains, and even there one will not find anything approaching the riotous growth to be encountered on such mountains as the coast ranges of Oregon and Washington. There are pines, to be sure, and spruce, especially on the northern slopes, but the general appearance justifies the name given to the range. The plains or high plateaus are covered with a very scanty growth of grass in little bunches, widely separated, and for ten months in the year these are brown and have a dead appearance. Owing to the fact that there is little moisture, the dead grasses do not rot and add to the soil from which they grew, but they wither and disiccate and seem to vanish into nothingness.

I have gone into this matter at some length because I believe that soils are closely related to climate; in fact, largely the result of climate, and I have prepared you to understand that in many ways our soils must differ from the soils of the east and of the lake region. Frosts and wind are steadily carrying on the work that they have been doing for ages, but the work of all these is mainly mechanical, and the result must be largely mineral. The vegetable elements, the fibre and the humus are sadly lacking. In a great many localities mineral salts are present in such quantity as to render the soil unfit for greenhouse use, and in some cases it is barren even in the field. We are apt to say that such soils contain "alkali," without any thought or knowledge as to the exact nature of the harmful element. My observation has been that the rose is more resentful of the presence of these salts than the carnation. I am not personally sure of its truth, but it is commonly reported that for lack of suitable soil and water, roses cannot be successfully grown under glass in the vicinity of Salt Lake City.

As the character of the soil is largely determined by the climate, so, too, is the character of the water largely determined by the soil of the region through which it runs. In nearly all the arid region except in the strictly

mountainous portions, the water is alkaline. In some sections it is so bad that neither man nor beast can use it to drink, and vegetation suffers from contact with it; while in other cases only the test of the chemist shows the presence of any deleterious substance.

Where the soil is decomposed shale, it is generally heavy and known as "adobe," a clay heavy enough from which to make sun-dried bricks. This soil, when dried by the sun after a rain, will open great cracks an inch or more in width and a great many feet in length. It is needless to say that it would not produce good results in a carnation bench, but it does yield good crops for the farmer who understands how to cultivate and irrigate it. This heavy adobe is at one extreme, and we find all grades of soil differing in texture up to sand and gravel.

In some parts of the mountains we have enormous deposits of red sandstone, and the soil adjacent will be a bright red sandy loam, which yields excellent crops in the field, but lacks the necessary substance for use in the bench.

Within a small area, soils of very different character can often be found, and not infrequently the topography will indicate different rock formations as the source from which they came, but almost without exception there will be the same lack of vegetable matter. This lack is one which can measurably be supplied so far as the chemistry of the soil is concerned, but the texture of the soil cannot be as satisfactorily corrected. During the winter the carnations require a thorough watering once or twice a week, and I think all growers in our section will agree with me in saying that we have been unable to find a soil that will endure this heavy watering throughout a season in the bench without becoming packed and soggy, unless it is a soil so sandy that it will not produce a good crop.

It is to be hoped that we may learn something to our advantage from the scientific soil investigations now being conducted by the Department of Agriculture and the various experimental stations. Certainly all of us have much to learn, and our progress is so slow as to be disheartening.

When we come to consider the matter of propagation, I am inclined to think that the florist in the arid region has several advantages over his eastern brother, but the advantages are not all on one side. When the cuttings are taken, the parent plants have been growing in bright sunlight and the foliage is crisp and erect. The plants have not had to struggle through weeks of cloudy weather with the snow on the roof perhaps, for days at a time. I think I have never seen our houses darkened by snow more than two days in succession, and probably not more than half a dozen times in ten years. But when the cuttings are taken from the plant, the dry air immediately begins to attack them, and they must be put into sand promptly or they are ruined. After they are in the sand they must be watered, generally once a day, and often twice. A low house is the most satisfactory for propagating, because artificial humidity can be created. Cloth curtains under the glass and in front of the bench help to prevent wilting. I do not think propagating could be successfully carried on

Two F. R. Pierson Company Introductions



WINSOR.
Winner of Lawson Silver Medal.



HELEN M. GOULD.
Striped Sport from Enchantress.

in high, airy houses, such as one sees in use in the vicinity of Chicago and elsewhere. Clean, sweet air must be provided, yet the least draught means death to the cuttings before they have roots to replace evaporation. Often in winter the temperature of the air in the house will run too high, and ventilation must be given. In mild winters like the present one, the bright sun on the glass raises the temperature too high, and when air is given, the dry wind outside rushes in and does its fatal work.

Early in October last, we had a light fall of snow, which quickly disappeared, and not until January 7th did any more moisture fall. The benches have been shielded from draughts by curtains, and every precaution taken, yet the story is the same on every place, "Our carnations are not rooting well." Had the winter been a severe one, with cold weather and frequent light falls of snow, the results would have been very different.

Considerable trouble is at times experienced with stem rot and cutting bed fungus, but I think not to the same extent as in localities further east.

Some of you will probably think me mentally unbalanced when I say that while sunshine and dry air are fatal to fungi, they do not tend to promote luxuriant growth in anything unless it may be a cactus or some other plant whose natural habitat is the arid region. Yet stop and consider as to

what countries produce what we are accustomed to speak of as a luxuriant growth of vegetation, and your mind will revert to a climate with frequent rainfalls and a humid atmosphere. I hope I may be pardoned for again referring to roses in a meeting of carnationists, but they seem to forcibly illustrate some of the points I wish to emphasize. I have never seen more than three or four really bad cases of black spot on Beauties in Colorado, and they were probably due to carelessness, for it is a trouble that we have not learned to dread as you do here. So much must be placed to the credit of these drying influences, but they tend to ripen each shoot too quickly and induce too quick setting of the bud, with wood close jointed and wiry. I think I am safe in saying that every progressive florist in the arid region grows his tea roses grafted on manetti, because this tends to make a more rapid growth, a longer and a heavier stem.

During the period when the young carnations are in pots they make but a slow growth, and this compels us to start early in propagating, as the young stock must have a longer time in which to make plants of suitable size for field planting. Our late frosts compel us to wait until about May 10 before planting in the field. Some plant out by May 1, taking chances on a heavy frost in order to gain time, and I must admit that some of the young plants endure a pretty severe

frost without permanent injury. The tips of the leaves suffer, but no permanent damage is done; in fact, if the frost is only a very light one, it seems a positive benefit, checking the soft growth and inducing the plants to break more freely. Before planting is begun the field must have a thorough soaking, either from surface ditches or with the hose, and after planting we generally water with a lawn sprinkler every night while the plants are in the field. With plenty of water and a reasonably good soil the plants make a healthy growth in the field, though they do not attain great size. The days are hot and sunny, but if well watered, the plants do not flag, and at night the air is cool and refreshing. It is not uncommon for the mercury to drop to 50 degrees or even to 45 degrees at night, following a day temperature of 90 degrees in the shade, and the carnations seem to enjoy this.

Should the plants escape the hail storms which sometimes nearly ruin them, they ought to be of satisfactory size by the first or middle of August. Lifting from the field and replanting in the houses is the operation requiring the most care of anything during the life of the plant, and plants of moderate size endure the transplanting better than very large ones. Those that were grown in pots prior to field planting endure the removal from the field to the bench much better than those that were grown in flats.

The custom of preparing the soil for

the benches a long time in advance does not prevail very generally, and beyond insuring a thorough mixing by frequent turning, there is not much to be gained by it. Where soil piles are wet through by frequent rains, there is a constant change going on and the component parts are blended by the rotting or fermentation; but where the pile is dry, the mass is inert. We are compelled to use manure with caution, because age does not seem to render it harmless to the same extent that it does in sections visited by frequent rains.

Before beginning our planting we shade the house heavily with mud, close all ventilation and wet down the walks and under the benches. When all is ready the plants are brought from the field with all the soil that will cling to them and transferred to the bench as quickly as possible. The house is kept absolutely without ventilation for the first two or three days, and the plants are frequently syringed. The walks and the ground under the benches are kept drenched and everything possible done to prevent wilting. As soon as it seems safe, a little ventilation is given, generally starting at night, and the shade gradually removed. Within ten days the house is having full light and ventilation. As the plants grow and produce blooms, it becomes apparent that the stems are not as long or as heavy as produced by the same varieties in eastern sections. The flowers are apt to come more nearly up to the standard than the stems. This tendency of the stem is so pronounced that, individually, I now make it a rule not to buy any novelty, no matter how attractive, unless it has a decidedly strong stem. The bright sun seems to produce high color in the flower, though some of the pinks fade badly unless shaded.

Among Colorado growers there seems to be a disposition to try the promising new sorts, as they are ambitious to have the best. Those whose business it is to disseminate new varieties will, I hope, pardon me for calling their attention to a few facts. Our section is so remote that not many of us can spare the time or the money to inspect new varieties before dissemination, and we must depend largely upon what you say in your advertisements. A great many letters of a semi-confidential nature are written by you to induce sales—letters intended to put you in close personal relations with the grower. The confidence thus engendered in the western goose and the crop of golden eggs is one whose loss you would deplore. You may have the fullest faith in a resurrection after death, but if you once kill this valuable goose it will stay dead a long time. Study carefully then the special needs of this section, and be sure you have a good reason before you urge a purchase. When you have made a sale, bear in mind that the journey is a long one, and that when first potted, a rooted cutting in the Rockies has a hard struggle for existence. It is useless to ship cuttings to that section unless they are well rooted, and extra care should be taken to see that they do not dry out in transit. Show a disposition to advance our interests as well as your own, and you will find that we are an appreciative lot.

I think that but two carnations have come to us in recent years that have

demonstrated their ability to produce good flowers with strong stems in satisfactory quantities as grown by the average florist. These two are Mrs. Thomas W. Lawson and Enchantress, and the florists of the Rocky Mountain region all take off their hats to Peter Fisher. White Lawson is just as satisfactory as the original pink, but the short stem early in the season is an objection to both. Harlowarden has been quite satisfactory, but the demand for that color is small. Fiancee has proved a wonderfully fine grower and blooms freely, but she has been on one protracted "bust" since October, and unless she mends her ways we will refuse to give her lodging next year.

The region we are considering includes an area about as large as ninety states the size of Massachusetts, yet the latter has nearly twice as many people and six times as much glass within her borders as are contained in all this vast region. Denver is now but forty-two years old, and is about one-third the size of Boston; Salt Lake is about the size of Springfield; Butte and Pueblo about as large as Holyoke; Colorado Springs and Ogden will compare with Fitchburg, while Cheyenne, Wyoming, Helena and Great Falls in Montana, Leadville and Cripple Creek in Colorado, are in size between such cities as Pittsfield and Newburyport in this State. By the census of 1900, there were only twenty-two cities and towns in the Rocky Mountains with a population of 5000 or over, while Massachusetts had nearly eighty in the list.

The last census showed that Colorado had more than two-thirds of the glass in the mountain region, and since then two or three important places have been erected. Important additions have also been made at Salt Lake and at Butte. Small establishments with from one to five thousand feet of glass have been started at many points in the mountains, and I look for a still further increase in places of that kind. A town of two or three thousand inhabitants, with small mining camps tributary to it and within easy access by rail, may very well offer inducements to the young man looking for an opportunity to start in a small way.

At present in our own establishment in Denver, we have ledger accounts with more than a thousand people scattered all over the mountain country. There is hardly a day in the year that we do not send retail orders to places from three to five hundred miles distant; and on holidays, especially before Memorial Day, these express packages go out literally by the wagon load. Oftentimes these orders come in by telephone from some mining camp hundreds of miles away on the opposite side of the mountains. We must be in a position to know as far as possible the financial standing of the people scattered over this wide area, and keep the information so readily accessible that we can look up a man's credit while he holds the long distance telephone at so much per minute. This is made possible by index cards, which show at a glance what experience, if any, we have had, and also the reports as to credit received from other sources.

This long distance business will eventually be reduced by the establish-

ment of small places, such as I have just referred to. But a wise man changes his methods with changing conditions, and we hope to then sell enough in other ways to offset this loss. At any rate, we will always welcome any man who comes among us and demonstrates his ability to succeed by honorable methods.

There is no wholesale commission house within the region we are discussing. Two or three earnest attempts have been made in that direction, but they have all failed.

Some flowers are shipped into our territory from outside. Kansas City sends a very limited amount to New Mexico, while Minneapolis and St. Paul ship rather largely to Montana. Ten years ago Chicago found a good market in Denver, but that time is past. Our real competition comes from Council Bluffs, half way between Denver and Chicago. Without any direct information, I am inclined to think the long distance trade of that point is gradually being secured by Colorado florists, who have the advantage of the shorter haul; and that Council Bluffs is finding not only compensation, but increased demand in markets nearer home, just as I have predicted must happen to us in Colorado, in our turn. We trust we may be able to meet the changing situation with like success.

I think a wrong impression prevails concerning the prices we obtain. In Denver they will average fairly well with prices in eastern cities. We are never compelled to accept the very low prices that sometimes obtain at eastern points, but at holiday seasons our highest prices are decidedly lower than your highest prices.

Fairy tales are told of miners who suddenly acquired wealth who spend their money lavishly; but in such cases they are apt to patronize those places that carry their stock in bottles instead of vases. A few drinks often create a temporary disregard of expense and a fondness for bright colors, but this is not the result of climate, and the effect is no more noticeable in Denver or Butte than it is in Boston or Chicago.

As a general thing, the man who has acquired wealth by his own labor does not spend his money freely for luxuries; neither is he apt to consider flowers as necessities. It is generally the second wealthy generation who consider our products necessary to their existence, and as our country is new, we must wait for time to bring this class of customers. In the meantime, we make up for their lack by the absence of the extremely poor. Abject poverty and destitution are rare in the mountain regions.

The February issue of Suburban Life is a beautiful product of the printer's art. The Mt. Pleasant Press of Harrisburg, Pa., are noted all over the country for their perfection in magazine making, and, therefore, when Suburban Life last month announced that these printers had been secured beginning with the next issue, the February number was looked for with great interest. It can in no way fail to delight its readers. The beautiful hand-set type and the abundance of half tones, admirably executed, go to make up a perfect periodical. With this issue, the magazine has been considerably enlarged and is more general in its tone. It contains a wealth of practical and entertaining features.

CARNATIONS FROM A WHOLE-SALER'S POINT OF VIEW.

(Read before the American Carnation Society.)

By A. J. Guttman.

It is said that "some are born great, others achieve greatness, and still others have greatness thrust upon them." It seems to me that I am among the last mentioned; but I assure you that I fully appreciate the honor accorded me, in being given the privilege of presenting a paper before such a representative body of our craft. I am glad of this opportunity, however, as the growers' interests and the wholesalers' interests are so closely linked that it is imperative that we come together occasionally and exchange views on trade interests if we would have the best results from our labors.

The carnation has become of great importance to the flower trade; and there is no doubt in my mind that this condition has been brought about mainly through the work of the American Carnation Society. Although there is keen competition among carnation growers, the fact that they so well understand the principles of business, and pull together on all matters that may be, or are, of benefit to the greatest number—this has made the society what it is. The impetus given to the raising of new varieties can be justly claimed as the fruit of this society's work; and it is through the many new and improved varieties, well grown and liberally exhibited before the public throughout the country by the members, that the divine flower has attained the prominent place it holds today with the people of the United States, Canada, and Europe.

Although carnations today are a staple feature in the market, they are a somewhat difficult crop to handle as their keeping qualities are so variable. Some varieties have excellent lasting powers, and others as you are all aware are not very good keepers; the wholesaler has to familiarize himself with the peculiarities of each variety, for there are several of our commercial sorts which, although they are excellent for home trade, will not bear re-shipping to any great distance.

Another fact that I should like to draw your attention to is, that with the gradual improvement taking place in carnations, it is becoming harder all the time for the wholesaler to handle the smaller varieties to advantage. Therefore I would recommend that growers use their very best judgment in selecting only the best varieties such as are generally termed fancies, as these find quick buyers. Would also recommend that the wholesalers should be asked to give their candid opinion of the selling and keeping qualities of any new varieties that are being introduced throughout the country, and I think it would to a great extent, prevent growers from buying undesirable varieties.

Another suggestion: See that your flowers reach the wholesaler in as perfect condition as possible. You have spent your time and energy in growing them, yet all these efforts are for naught if the packing and shipping are not attended to with the proper care. The wholesaler wants good stock fresh and carefully handled; the name of the carnation is not in itself

a salable asset. The stiff-stemmed varieties should be tied as low as possible in bunching, so as to let the flowers spread nicely, and they will then show up well. The fewer flowers in the bunch the better they will carry for shipment to the wholesaler, and twenty-five should be the most put in a bunch.

Should your facilities for shipping be such that for instance, you can deliver stock to the wholesaler by wagon; or, when they are choice varieties, then, I would advise to pack the carnations in boxes, in layers; of course these should not be bunched. Growers should systematize their picking, bunching, packing, and shipping, as much as possible, for it all helps to give satisfaction to the wholesaler, retailer, and general flower-buying public.

It is a fact that there are not so many early and small grades of chrysanthemums grown through the country as heretofore. For that reason I should think that varieties of carnations that could be brought in crop,



CHARLES WEBER, of Guttman & Weber.
Introducers of Carnation Victory.

in good shape during the fall, should prove profitable to the grower, as good prices can be obtained for them. Fancy scarlets that can be brought in heavy crop for December are profitable to grow.

Another question which seems to me very important is how best to keep carnations after they are cut; and in my opinion this is an important problem for the American Carnation Society to solve. The wholesaler at most times through the season, has to display the stock for at least three hours, although at certain times of the year the blooms are really sold before they come in. In the latter case they are promptly repacked and transferred to the retailer; but when it is necessary to display stock which has perhaps been grown a little soft, and possibly not picked at the proper time, as is often the case with growers who do not pick daily, in that case I tell you, the wholesaler is up against it, as we should say, when making his returns to the growers.

I think we ought to have a better system of grading. We would not require so many distinctive grades as is

given to roses, but to keep the poorer flowers separate would certainly be a good idea, for it often happens that a retailer when buying carnations, will reject an entire bunch because of one or two poor flowers, and he will tell you that the flower buyer detects a poor flower as quickly as he. When the retailer can depend upon a certain grower's stock, and know that it is carefully bunched, and carefully sorted, it is an advantage to him, for it saves time, and invariably he will be glad to pay a little more for this grower's stock. I know some growers who have for several years graded number 1's and number 2's, much to the advantage of grower, wholesaler and retailer, and it would be a great thing if every grower adopted the same plan.

It is to the best interests of all that the grower have the fullest confidence in his wholesaler, and consign his flowers regularly, and not to hold them back for special occasions. I know that this is a delicate subject and I approach it only after due consideration. We can understand that in years gone by, when there were no flowering plants grown for the Christmas and Easter holidays, there was something to be gained by keeping every flower possible for the holiday sale, when flowers were scarce and prices went soaring upward, but those times are a thing of the past. There is no more scarcity such as there used to be at holiday time; the increase in glass and the growth of the plant industry has done away with that feature of the holiday business. "Ship your flowers when they are ready" is a good rule and in such holding back as is necessary try to govern your picking so that flowers will not have been cut too long. The wholesaler of today is equipped with cold storage facilities and he can hold the stock if necessary, or sell it at once if that is best, and being in the market he can take advantage of the conditions that may arise, much better than he could if the grower has the flowers in his own cellar. I have seen carnations right before a holiday, which, although they looked grand in the grower's cellar, were not salable three hours after reaching the wholesaler's establishment.

I would like to say a few words on high prices: often the growers put it up to the wholesalers, especially during the winter season, to explain why prices are high today and low tomorrow. My experience has taught me that when prices are too high for the average retailer to be able to satisfy his customers and make a reasonable profit, the retailers stop buying for one or two days, and, as the stock continues to bloom and flowers have to be moved, the wholesaler is compelled to lower prices, then the retailers buy, and the machinery is again in proper motion.

One thing more: The wholesaler can greatly help to popularize the meritorious varieties by distributing the bloom among as many retailers as it is possible for him to do with the supply at his disposal.

I wish to say here that several gentlemen of our profession have assisted me in preparing this paper. I felt that since you have so honored me, it was my duty to present here as good a paper on this subject as it was possible for me to give you.

Three Sterling Carnation Novelties

Winsor, White Enchantress, and Helen M. Could

SEE ILLUSTRATIONS ON PAGE 135.

There is nothing about any of these varieties that we wish to conceal; therefore, we cordially invite all carnation growers to pay us a visit. Come at any time.

WINSOR—Winner of Lawson Silver Medal.

This is sure to prove a winner. Nothing approaches it in color, which is a clear silvery pink—a shade between Enchantress and Mrs. Thos. W. Lawson—and much more beautiful than either. In fact, it is just the shade that we have all been trying to get. The color will make it sell in any market. The stem is just right. The flowers are considerably larger than Lawson and much better shaped. As a grower it has everything that can be desired. So far we have not seen any large-flowering variety quite so free as Winsor.

WHITE ENCHANTRESS.

A pure white sport of Enchantress, at once the most popular and most profitable carnation grown today, on account of its size and stem and freedom with which it blooms. White Enchantress is identical in every respect but color. Those desiring quality as well as quantity will find it in White Enchantress.

HELEN M. COULD.

This is a beautiful variegated sport of Enchantress. The ground color is a lovely shade of clear pink, the variegation carmine, making an exquisite combination of colors, besides being something distinctly new. At a short distance the variegation does not show at all, the general effect being a beautiful shade of dark pink. Growth, habit, size, and stem are the same as Enchantress.

We have fine stocks, from which we can deliver healthy cuttings of Variegated Lawson, White Lawson, Red Lawson, Enchantress, Mrs. M. A. Patten, Lady Bountiful, etc.

Our Variegated Lawson is all that we claimed for it last season, and is giving the fullest satisfaction everywhere—the best in the variegated class. Come and inspect our stock of new and standard sorts

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

THE BURBANK "CREATIONS"—A CRITICISM.

We acknowledge with pleasure the receipt of the following letter, with enclosure, from a subscriber.

Being much interested in the mild warfare waged by one of your contemporaries with poor Mr. Burbank as the bone of contention, my interest was great enough for me to make a genuine and long-protracted effort at reading that idiotic, flat and unprofitable eulogy which the Macmillans have recently published about him. Yesterday, to my great delight, on opening my copy of "Nature," the English edition, I found a review of the above mentioned book, which strikes me as being about the fairest, squarest, best thing on the whole subject I have yet seen. It occurred to me that you might not see "Nature," so I had the article typewritten for you and enclose it herewith. The article seems to me very much in keeping with the fine material you are giving us in "HORTICULTURE," and you may like to use this. Good wishes to you and good luck to HORTICULTURE.

Plant-Breeding in America.

New Creations in Plant Life: An Authoritative Account of the Life and Work of Luther Burbank. By W. S. Harwood. Pp. xiv., 368; 50 illustrations. (New York: The Macmillan Company. London: Macmillan & Co., Ltd.) Price, 7s. 6d. net.

There is something to be said in favor of this work. At the same time, we imagine no one will have more cause to regret its appearance than Mr. Burbank himself. The reasons for this expression of opinion are easily supplied. It is decidedly desirable that the outside public should be made aware of the enormous practical importance

of what is called plant-breeding, and that they should be familiarized with the means and methods adopted by experts for the multiplication and improvement of flowers, fruits and other vegetable products. A slightly increased percentage of sugar in the sugar-cane or the beet, an apparently trifling improvement in the staple of cotton, the development of a potato relatively immune from fungus diseases, an increased production of fruit or the introduction of harder varieties, of some that are earlier, or others that are later, to say nothing of the improvement of flowers in form, color and perfume, are all points of great importance and of very great interest from a biological point of view.

In this field of work Mr. Burbank has long been known as an energetic laborer, and it is quite possible that in actual amount his work bulks larger than that of any of his predecessors or his contemporaries. Moreover, as we learn from the book before us, and from other sources, the experimenter is a man of high purpose, modest and amiable. It is for these personal reasons we imagine that he will have cause to regret the appearance of this volume. We have no desire to belittle Mr. Burbank or to undervalue the importance of what he has accomplished. We believe that he would be the first to acknowledge that there existed strong men previous to the appearance of Agamemnon. But this is a fact that his eulogist does not sufficiently estimate. In perusing the glowing paragraphs of this volume the casual reader might imagine that there were no plant-breeders before Burbank, or that their labors were comparatively insignificant, and yet in our own country alone we seem to have heard of Thomas Andrew Knight, of Dean Herbert, of Trevor Clarke, of Thomas Rivers, of John Laing, of Donlay, of Sedan, of Laxton, and of large numbers of others whose productions at least vie in importance with those of the American experimenter, whilst a visit to the great establishments of Vilmorin near Paris, Benary, and others at Erfurt and Quedlinburg, as well as to the trial-grounds of our Vetches, Suttons, Carters and many others, would show that the great American hybridist is by no means without a rival in his line of work.

It would hardly be fair to criticise those products of Mr. Burbank's skill and perseverance that have reached us, because it

may well be that they are not yet adapted to our climate. At any rate, to name only a few instances, the Burbank plum, the Burbank lily, the Shasta daisy, all so enthusiastically spoken of in the pages of this book and elsewhere, have not, in this country, justified the encomiums passed upon them by the American press.

When we read of Mr. Burbank's methods of work we do not find anything different from the practices of our "raisers," who are too modest to speak of their efforts as "creations."

Among the "creations" mentioned in this volume is the "thornless edible cactus." Surely we have heard of and seen a spineless *Opuntia* before attention was called to it in this volume, where it is stated that "nothing more marvellous has ever been done in plant life!"

Again, "the rare effects developed in the transformation of the columbine" do not differ (so far as we can tell from the illustration facing p. 359) from the stellate columbine known in our gardens for centuries and figured on p. 273 of Parkinson's *Paradisus* (1629).

A man who has experimented on such a colossal scale for so long a time might be expected to have gathered valuable information on such points as heredity, adaptation, inheritance of acquired characters, as well as formed opinions on Mendelism and mutation. We gather from the book before us that Mr. Burbank's attention has, almost of necessity, been directed to these subjects, and we earnestly hope that now that the Carnegie Institution has granted him a subvention of ten thousand dollars a year for ten years he will find time to record and co-ordinate his experiments for the benefit of future workers and the increase of biological knowledge.

Incidentally, we glean that Mr. Burbank is not inclined to accept the views of Weismann or of Mendel, but that he looks favorably on the mutation theory of De Vries. Surely no practitioner has had better opportunities of judging of these matters than has Mr. Burbank, and if he will give us his own experiences in his own words, rather than in those of some too partial biographer, the world will be the gainer, and the value of Mr. Burbank's work more accurately gauged than it can be from the perusal of the present volume.—Copied from "Nature" (No. 1889, Vol. 73), January 11, 1906.

THE CARNATION OF THE FUTURE.

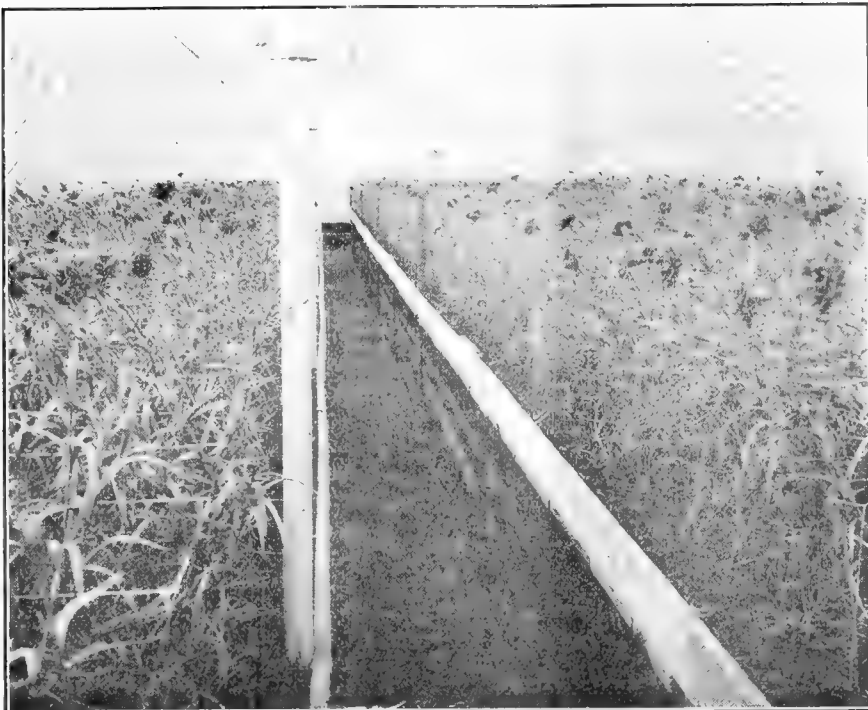
Read before the Gardeners' and Florists' Club of Boston, by Peter Fisher.

We think of the past with its attainments or failures. We live in the present and see it recede to the past like a scene in a kaleidoscope. The future is mythical and hazy: no man knows what it has in store for us; we can only guess in a measure. Looking backward for a moment and judging from what has been and is being accomplished, we may form a pardonable estimate of what will or may be towards the development of the carnation of the future.

To make any true progress we must always have an ideal to work up to, but the ideal carnation is always just a little in advance of us. We think to grasp it and find something imperfect instead, and as we look again day-dreaming we again see our ideal ever ahead in all its beautiful and varied shades of color, perfection of form, and luxurious growth. This is well, for were perfection attainable here, progress would cease. What culture and selection have done for the improvement of the carnation in the past it will do on a larger degree in the future, and as the standard rises higher and higher, the fancy varieties will be succeeded by a class more perfect and beautiful, with higher class still beyond. Imagine, if you can, a type of carnations in beautiful and varied shades of popular colors, so far in excess of the best of today in point of size, as to rival the American Beauty rose, and sold at prices unheard-of. This is within the range of possibility; we are steadily but surely coming up to this standard.

In the near future, varieties of carnations specially adapted for the purpose will be grown in pans and meet with a ready sale and increasing demand. Dwarf, compact-growing, free-flowering varieties will be the type, in varied shades of color. Think how well-grown specimens of a scarlet, for instance, would sell at Christmas.

After another season of experience and close observation, I am more than ever convinced that the best carnations of the future will be grown indoors exclusively, much in the same manner as roses are handled today. By this method of culture you will obtain a steady supply of bloom superior in every way to field-grown plants. But the houses in which they are grown must be specially adapted. Those running north and south will have a decided advantage over those running east and west, as the stock can be grown cooler during the hot days of summer; the advantage of better light in an east and west house in winter will not affect the advantage of a north and south as a growing house during summer, and with this thorough root action the difference in number of blooms obtained will scarcely be perceptible, with a decid-



HOUSE OF "THE ARISTOCRAT"

Photographed Dec. 20, 1905.

ed advantage in quality in favor of the north and south house during hot spring days. Benches will be best for this method and those with tile bottoms preferable, as they will be beneficial in retaining moisture and keeping the roots cool. Not less than five inches of soil should be used, as shallow benches require too much watering during hot days, which tends to sour the soil. A large, wide, span-roofed structure with continuous ventilation on each side of the ridge and at the sides will be the type of greenhouse best suited for this purpose. The dissemination of the carnation of the future will be along different lines from that of the past or present; a strict record of its merits and faults will be kept in tabulated form, at least two years prior to distribution, stating how many blooms it will produce per square foot of bench space, how many plants to the square foot, date when cutting of blooms commenced, when plants were thrown out, and number of saleable or split blooms picked from a given bench space each day. These records will be kept for inspection at any time. A synopsis of this report will be added along with the advertisement of the cuttings, and placed on the exhibition tables when new varieties are shown, and the confidence of the trade will be restored. Then as our successors in business look up the records of our past and present methods, they will draw the cloak of charity over the past, but the blush of shame will tint the cheeks of some, as they reflect on the shady methods—it may be of a parent who has passed beyond.

How is all this to be accomplished? First by improved culture of our best existing varieties, then it is simply culture and selection all the way along.

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IMPRESSIONS OF CALIFORNIA AND ITS CLIMATE.

(A Paper Presented by E. D. Darlington, Before the Florists' Club of Philadelphia.)

In complying with the request of certain members of your club that I should give you a short talk on a trip which I had occasion to make to California the past fall in the interests of the seed firm with which I have the honor of being connected, I would state that the period of this visit was the latter part of September and the early part of October at which time nearly all the harvests had been gathered and the growers were awaiting the advent of the rains to commence plowing and planting the crops for the ensuing year.

In the section visited which comprised the coast-line from San Francisco to Los Angeles and the higher land in the vicinity of Sacramento, there had been no rain since the previous spring; the hills and mountains were gray and bare excepting for the small brush and occasional carpet of dried burr clover, while over the trees and road-side weeds were a thick coating of finely powdered dust. Excepting on occasional small lawns and parks which were kept frequently watered, nature had completed her work for the season and was enjoying a period of rest before starting in to produce another crop. But the climate was fully in evidence everywhere and its possibilities were a source of continual wonder to the gardener from the east and impressed itself on one at every hand, not only to see the growth of palms and greenhouse plants in the open air, but also in the changed appearance of our own familiar crops of fruits. The real estate boomers and people of the towns hold forth on the subjects of climate with the greatest enthusiasm but the gardeners and seedmen whom I had the pleasure of meeting, pass over all this as a matter of course and confined themselves to showing their various crops and the natural points of interest in their immediate vicinity and all were true gardeners in extending the hand of fellowship and hospitality. My time was extremely limited and was so fully occupied in visiting the ranches of the seed growers that I did not visit any distinctively florists' places, nor did I notice any such on the outskirts of the cities, but they must have a number of such places as the flower stores in the cities evidenced. These stores were quite in the eastern style, though not nearly as numerous. At the time of my visit the flower stores in Los Angeles and San Francisco had good displays of chrysanthemums, which at that time were selling for \$2.50 per dozen at wholesale in San Francisco, but aside from the chrysanthemums, the flowers displayed were not as fine as the products of the greenhouses in our own

city. No doubt this is largely due to the lack of demand for fine flowers at that time as it was between seasons, as there should be no difficulty in producing as fine roses and finer carnations than we have if there should be a sufficient demand for them. The only drawback is the high cost of coal, but this could probably be obviated by the use of oil, which is almost exclusively burned for the production of power.

Leaving San Francisco the morning after my arrival, my first stop was in the famed Santa Clara valley, a tract of level land from three to ten miles wide lying between two ranges of brown hills. The soil is black and heavy, much of it in the central portion being adobe or dried swamp land divided by large open drainage ditches, while the higher portions were of a lighter color and texture. The soil is free from stones and consists of loam or earth which has washed down from the hills through countless ages, and the higher, lighter colored ground had much the appearance of our own soils, but in the lower ground the black adobe has the appearance of the muck found in the bottom of an old pond. In the dry seasons this black earth becomes extremely hard and large cracks radiate over the surface in every direction. Even where it is kept constantly cultivated, the small particles of soil resemble gravel in their hardness.

Such flowers as late crops of sweet peas, asters, etc., as well as beds of young celery, carrots and endives were growing vigorously under the influence of irrigation and did not seem to mind either the hardness of the soil nor the intense heat which prevailed during the middle of the day. Hoeing to keep the surface soil still loose and fine is unknown in California, and probably impossible in the adobe lands. It was a strange sight for eastern eyes to see men walking between the rows of plants with the hoe held high in the air to furrow a vigorous chop at any weeds which might appear.

The fruit orchards on the other hand have the surface of the soil constantly cultivated and are as clean and free from weeds as a model garden, but the eastern eye misses and longs for the fresh green backgrounds which should relieve the cultivated lands, and its entire absence at least at that season of the year, continually reminds you that you are in a strange land. The leaves of the fruit trees are a rich deep green, as well as the foliage of the growing crops, but serve only to accentuate the dusty brown or gray tints of the surrounding landscape. Even where there is a bright green lawn, it has the appearance of a small flower bed in the midst of the bare brown earth surrounding it on every side.

Nearly all planting in California is done on a large scale and is quite distinctly localized; thus in the Santa Clara valley, we find the ranches of the principal seed growers within a few miles of each other, and fairly extensive apple orchards, with miles and miles of prunes and thousands of acres of sugar beets. Every crop is grown for the cash it will bring and outside of the large tourist hotels and some few private places in the towns, ornamental plantings or surroundings are things of the future. This seems strange to a gardener or florist as practically all of our decorative palms and plants can be grown in the open air but it is doubtless due to the necessity of irrigating or constant watering of the plants and grass required during the dry seasons and it costs about twenty to twenty-five dollars for the water necessary to keep a small town lawn fresh and green during the summer and fall.

Although very nearly all of the level valley lands are now under cultivation, there still remain occasional groups or clumps of live oak trees and these with their mossy gnarled trunks and branches and the bright green holly-like leaves are the most attractive features of the valleys, but as the grazing ranches are divided and broken to the plow they are being cut out and made into firewood and there seems to be no attempt whatever to make new plantings of this beautiful and locally characteristic tree. I shall always remember the live oaks not only for their interesting growth, but also for the grateful shade they furnished during the heat of the day, as the moment you step under the branches of the live oak you feel a coolness similar to that when going into the florists' ice box while with all other trees the foliage simply affords relief from the strong sunlight without any feeling of coolness in the air. During my stay in the Santa Clara valley the thermometer would go to 108 to 110 degrees during the middle of the day; the air was clear and perfectly dry, so that no one perspires but the heat is felt in a burning or prickling sensation on any exposed portion of one's body. Nearly all the time there was a fresh breeze blowing in between the hills from the Pacific and from four in the afternoon until ten in the morning, the air was cool and pleasant, and at night sleep was most refreshing unless the California flea was present to take a hand in welcoming you to the country.

It is the climate combined with the fertility of the soil which makes California so desirable for seed growing, as during the harvest season there is an entire absence of rain. Seed heads develop and ripen and the harvest proceeds steadily, yet without rush or hurry, vines or seed heads are cut, field by field, and spread on large

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QUEEN BEATRICE

sheets to dry and when all have been harvested, the thresher goes from block to block, followed by the cleaners and the sacks of seeds are stacked in the open air until they are hauled to the warehouse in the fall. There is no anxious watching for forcing showers or heavy downpour as with us and no need for any shelters in which to dry and thresh the seed.

Next to the seed ranches the most interesting feature of the Santa Clara valley is the miles and miles of prune orchards, and in handling this crop the prunes are allowed to ripen fully and drop to the cultivated soil beneath; they are then gathered from the ground, dipped in lye to remove the bloom and are spread out on slated crates such as we use for onion sets to dry. The past year the prune crop, like nearly all other crops, was cut short by the intensely hot weather in July, but the price was good and growers were having better returns than from the very large crop of the preceding seasons.

Below Santa Clara I visited the "slews" of Watsonville where the soil is a black fibrous peat, similar to that of the Jersey swamps and here were crops of cauliflower in all stages from the freshly set young plants to those in head and seeding. In these valleys there were clear streams of water running in the drains and it seemed entirely practicable to grow all moisture-loving crops at any season of the year, but it is not suited for general seed raising on account of the heavy fogs which come in from the sea. The hills surrounding these valleys are devoted to dairy farming and apple orchards and the country had more of a home-like appearance than any part of California I visited.

Going still further South, I stopped at Lompoc where the chief crops are mustard seed and commercial or soup beans, and still further south to Ventura was a lima bean country. Try to imagine from fifty to seventy-five miles of travel through narrow but level coast lands where the principal crop was lima beans, interspersed with orchards of English or more properly

called Persian walnuts. This portion of California was to me the most interesting for here were the evidences of the early Spanish settlers, fan palms sixty feet or more high, araucarias forty to fifty feet high and a grape vine with a trunk over a foot in diameter and the branches covering a trellis which extended over half an acre of ground. This vine is at Carpenteria and coming on it unexpectedly, I at once recognized it from the illustration in our gardening publications. The vine is in perfect health and vigor and could easily be made to cover a much larger area. On the under side of the trellis hang immense clusters of fruit, a single cluster of bunches being large enough to fill a good sized wash-tub, but owing to a lack of water the grapes were poorly developed and only fitted for the wine press. Here we also visited a small ranch in a little valley where three generations of a Scotch family had a small fruit ranch which was a feast to delight a gardener. Here in adjoining rows and blocks were strawberries,

raspberries, blackberries, loganberries, purple guavas, figs, an extensive assortment of our finer hot-house grapes, lemons, oranges and grapes, some in full bearing and others with occasional clusters of ripe fruits according to their season. Here were trained gardeners of the old school raising in the open ground all the fruits which they had been accustomed to grow under glass in their old homes. An incident of Carpenteria was a large Magnolia grandiflora with camellia-like blossoms a foot in diameter and on my commenting on its flowering at that season of the year, I was told that it was "a continuous performance" and that it flowered throughout the whole year. From the windows of my room in the Hotel Rose, Ventura, I could look down into the flower garden of Mrs. Theodosia B. Sheppherd which occupies an entire square in the center of the town, and here was a most interesting and varied collection of flowering plants, many of them old acquaintances of my appren-

(Continued on Page 142.)

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\$12.00 per 100
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Lawson, \$2.00; Enchantress, \$2.50; Lady Bountiful, \$3.00; White Lawson, \$3.50; Victory, \$12.00; Harlow-arden, \$12.00; Vesper, \$2.50; Boston Mkt., \$2.00; Queen Louise, \$2.00; Mrs. Patten, \$3.00; Jno. E. Haines, \$12.00. All per 100. Thousand rates on application.

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Consult Buyers' Directory and List of
New Offers on Pages 148, 149 and 150.

IMPRESSIONS OF CALIFORNIA AND ITS CLIMATE.

(Continued from Page 141.)

ticeship days which have now disappeared from our commercial green-houses, as these in recent years have been turned into cut-flower factories or palm nurseries to the detriment of varied plant collection. In one corner there were small glass houses heavily white-washed for propagating purposes while along the central walk were lath shades filled with begonias and creepers, and at intervals were ornamental summer houses or pagodas artistically decorated with the leaf stalks of the fan palm. Quite a large section of the grounds was laid out in rock work and devoted to cacti and other succulents and the whole was a most interesting treat for any flower-loving gardener. A noticeable feature here as elsewhere in California, was the immense size of the individual florets on the geranium, all varieties appearing to have much larger and more brightly colored flowers than with us. Near the hotel there is a rubber tree which has the size and developments of a twenty-five year old Norway maple, and at the Mission there is an araucaria fully fifty feet in height, but a peculiar feature of the araucaria was that instead of being flatly spread, the side branches turned upwards in a V-like form, possibly owing to the dry season.

Fine palms fifty to sixty feet in height are ornamental and a distinct novelty, with their smooth trunk and crown of green leaves high in the air, but the dead leaves hanging closely to the trunk below the green crown detract from its beauty and I can not commend it for street planting, especially when of younger growth, the spikey parts of the leaves are on a level with your eyes. The fan palm and the pepper tree seem to divide the honors in California and both are used very largely and almost to exclusion of other trees for street planting. The foliage of the pepper tree is beautiful and glossy, but the trailing branches hang down like those of a weeping-willow and are only a little less annoying than the spikey palm leaves, while the immense crop of berries keep the walk dirty and slippery. Some day when these trees grow larger and taller they will add a distinct feature to the towns but it seems a pity that when there are so many more graceful and suitable trees for street planting that these two should be used exclusively, as they are much better adapted for individual specimens on the lawn. Near Ventura is the Cole bulb farm where callas and freezias are grown by the acre, but these were just starting into growth after their summer rest and of course, did not present the display that they would in the spring

(To Be Continued)

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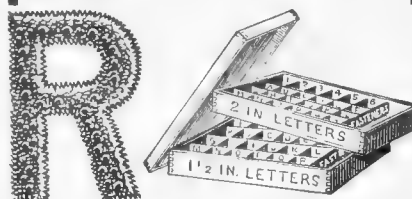
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WHOLESALE FLOWER MARKETS TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO Jan. 23		ST. LOUIS Jan. 29		PHILA. Jan. 30		BOSTON Feb. 1	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	40.00	to 50.00	35.00	to 40.00	60.00	to 75.00	40.00	to 60.00
" Extra.....	25.00	to 40.00	25.00	to 30.00	50.00	to 60.00	20.00	to 30.00
" No. 1.....	16.00	to 24.00	10.00	to 20.00	25.00	to 30.00	12.00	to 15.00
" Lower grades.....	6.00	to 8.00	4.00	to 8.00	10.00	to 15.00	4.00	to 8.00
Bride & 'Maid—Fan. & Sp.....	8.00	to 10.00	.....	to 8.00	.....	to 15.00	8.00	to 12.00
" Extra.....	7.00	to 8.00	4.00	to 6.00	12.00	to 15.00	6.00	to 8.00
" No. 1 and Lower gr.....	5.00	to 6.00	.....	to 3.00	6.00	to 10.00	2.00	to 6.00
Liberty, Fancy.....	8.00	to 10.00	.....	to 25.00	35.00	to 12.00	25.00	to 30.00
" Ordinary.....	4.00	to 8.00	.....	to 8.00	15.00	to 8.00	12.00	to 15.00
Richmond, Fancy.....	8.00	to 12.00	6.00	to 8.00	25.00	to 30.00	25.00	to 30.00
" Ordinary.....	4.00	to 8.00	4.00	to 5.00	12.00	to 15.00	8.00	to 12.00
Golden Gate, Fancy.....	8.00	to 10.00	6.00	to 8.00	10.00	to 12.00	8.00	to 12.00
" Ordinary.....	6.00	to 8.00	4.00	to 5.00	6.00	to 10.00	2.00	to 6.00
Chateauf, Fancy.....	10.00	to 12.00	6.00	to 8.00	15.00	to 25.00	8.00	to 10.00
" Ordinary.....	6.00	to 8.00	4.00	to 5.00	10.00	to 15.00	2.00	to 4.00
CARNATIONS								
Fancy.....	3.00	to 5.00	3.00	to 4.00	3.00	to 6.00	3.00	to 4.00
Ordinary.....	1.50	to 2.50	2.00	to 2.50	1.50	to 3.00	1.50	to 2.00
MISCELLANEOUS								
Cattleyas.....	40.00	to 50.00	.....	to 40.00	40.00	to 50.00	.....	to 50.00
Cypripediums.....	12.00	to 16.00	.....	to 10.00	.....	to 10.00	.....	to 12.00
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	2.00	to 5.00	2.00	to 4.00
Violets.....	.75	to 1.50	.35	to .50	50	to 1.00	.50	to .75
Tu ps.....	.....	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00
Romans Hya., Paper White, Nar.....	3.00	to 4.00	2.00	to 3.00	3.00	to 4.00	2.00	to 3.00
Daffodils: Trumpets.....	4.00	to 6.00	.....	to 6.00	4.00	to 6.00	2.00	to 4.00
Mignonette.....	6.00	to 10.00	2.00	to 6.00	2.00	to 4.00	2.00	to 4.00
Adiantum Cuneatum.....	.....	to .75	.....	to 1.00	.75	to 1.00	.75	to 1.00
" Croweanum.....	.....	to 2.00	.....	to 1.00	.....	to 1.50	.....	to 1.50
Smilax.....	12.00	to 16.00	12.50	to 15.00	12.50	to 15.00	8.00	to 12.00
Asparagus Plumosus, strings.....	40.00	to 50.00	25.00	to 50.00	35.00	to 50.00	to 50.00
" & Sprenger bunches.....	30.00	to 35.00	25.00	to 50.00	50.00	to 75.00	to 50.00

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The most brilliant scarlet carnation. Requires only ordinary culture. Is a fancy in the fullest sense of the word and wholesaled at \$25.00 per 100 at Christmas.

Cut Flower Market Reports.

The present week sees but **BOSTON** trifling changes in cut flower conditions in this market. Carnations and lily of the valley are lower; yellow narcissi are also tending downward in value, while advancing in quality. These are all due to increasing production, and not to any slackening of demand. Roses are going the other way, being supplied in lessening quantities, and in quality none too good. Cut flowers, wall flowers, sweet peas and other pretty little specialties are finding ready sale.

No complaint can be made on the amount of business done the previous week. The spring weather has forced on carnations, roses and bulbous stock to good extent. The only things that actually were scarce were good Beauties, the price holding firm but no special demand. All other stock was enough to be had. Some lines were moved slowly but up to Saturday a good cleaning up was had, much floral work in evidence. Green goods were abundant; sales a little weak.

Business during the **CINCINNATI** past week was what might be termed fair; the best flowers sold out clean every day, while the inferior grades went begging. Prices have taken a drop for the simple reason that the grade of stock is not up to the standard. Nearly everything has the appearance of having been picked over before it reached the market. Daffodils made their appearance last week and can now be had in any quantity. Harrisii lilies are more plentiful, but a large number of the flowers are imperfect and therefore unsalable. Tulips can now be had with longer stems and in great variety. Carnations and roses are weak in the stems, and many of the former are so badly bursted that they are not salable. There is not much doing in the plant line. Azaleas and primulus are largely used for window display but comparatively few are sold.

With a week of **INDIANAPOLIS** spring-like weather trade has been fully up to expectations. No special rush but good active demand. Stock in nearly all lines is about equal to the needs of the day. Beauties are more plentiful and of excellent quality. Bridesmaids are improving in color. Carnation crops are satisfactory in quantity as well as quality. All report heavy sales in blooming plants, probably due to bright weather. Lilac, sweet peas, daffodils, tulips and mig-

nonette are in better supply and find ready demand.

LOUISVILLE Business conditions last week were up to expectations. The weather was good, and stock came in in satisfactory quantities. Carnations had a good steady demand, with a good supply. The quality could be better. The demand and supply of roses were up to expectations, with the quality moderate. Lilies of the valley and violets found an unusually good demand, with the supply a little slow. Narcissus, hyacinths and other bulbous stock moves satisfactorily.

NEW YORK Though business is fair, it lacks snap. In consequence of a shortened rose supply, American Beauties lead in demand, and the larger sizes are maintained at top figures. Bridesmaids are none too plentiful. The Bride is wanted chiefly in the lower grades, so that the best do not average up with Bridesmaid. Liberty and Richmond are readily sold, and so, too, are the choice grades of Golden Gate, Killarney, Chatenay, etc. Carnations are plentiful, the novelties bringing good prices. Of the standard varieties, all colors are well represented in the market. Harrisii lilies are moving easily at good figures. Bulbous stock continues to increase in quantity, and yellow seems to be a feature in every wholesale window. There is a pause in the call for lily of the valley, judging by the lower quotations that have obtained for several days past. The bulk of violet shipments reach the street merchants, who have been favored by the fine weather. The sale of smilax drags, while Asparagus plumosa sells readily.

PHILADELPHIA. The warm weather in the early part of the week hurt the sale of carnations, as they had a strong sleepy tendency, but later the brisk weather helped things wonderfully; and on the whole, business was pretty good all along the line. Beauties were a little scarce, but of very good quality. A marked feature of the market was the improvement in the quality of Bridesmaids. Killarneys and Chatenays came in more freely and were quickly taken up. Enchantress remained the leader in carnations; white Lawson was also a favorite. In reds, Flamingo is undoubtedly the finest; but as it requires very careful handling so as not to bruise it, many prefer Crane or Bliss, although these latter are smaller. Cattleyas are in good form at present. Cypripediums nearly over. Lilacs remain a strong feature of the market, and are in good demand. Lily of the valley and sweet peas normal; single tulips and daffo-

dils are the best sellers in the bulbous line. Freesias are at their best at present, and large quantities are being used. A flush crop of snapdragon is on, and meets with some favor. McKinley day helped the carnation market a little. There was no advance in prices, but the previous good figures held firm. This was especially true of pinks and reds.

SAN FRANCISCO

The executive committee of the McKinley Club, which numbers between four and five thousand members, has been sending out notices broadcast to not forget the McKinley carnation on January 29, and the carnation trade is feeling the incentive. First quality American Beauty roses are scarce, but fine tea roses are on hand in excess of the demand. Such bulbous stock as tulips, Roman hyacinths and paper white narcissi is arriving in improved quality, and violets and lily of the valley are in great abundance and breaking records on quality. Business is always slow at this date, but the cut flower trade may be said to be getting along rather better this year than usual.

FIRE RECORD.

Allen & Yeaw's greenhouses and barn in Worcester lane, Waltham, Mass., were destroyed by fire on January 26th. A defective boiler was the cause. The loss is reported at \$4000.

Nearly all of West Collingswood on the outskirts of Camden, N. J., assisted in extinguishing a fire at the greenhouses of Herman Zimmer, which destroyed thousands of plants. About \$1000 damage was done.

NEWS NOTES.

One of the Louisville daily papers last week contained a large advertisement in colors by Jacob Schulz, representing a wreath of red carnations encircling a portrait of McKinley and announcing a complete stock of McKinley's favorite flower. This is the kind of enterprise that pays.

Bulletin No. 1, "The Gypsy and Brown-Tail Moths," has been issued from the office of the superintendent for suppressing the gypsy and brown-tail moths in Massachusetts. It gives the life history of the moths, tells where to look for them, the remedies against them, contrasts the species, and closes with a summary of the law of Massachusetts requiring their suppression. The pamphlet is fully illustrated. HORTICULTURE has secured a supply of these books, and will be glad to furnish copies to any applicants.

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	Last Half of Week ending Jan. 27 1906	First Half of Week beginning Jan. 29 1906		Last Half of Week ending Jan. 27 1906	First Half of Week beginning Jan. 29 1906
Roses					
Am. Beauty and Edgeley fan and sp.	50.00 to 75.00	50.00 to 75.00			
" extra.....	35.00 to 50.00	3.00 to 40.00			
" No. 1.....	25.00 to 35.00	25.00 to 30.00			
" Lower grades.....	5.00 to 15.00	3.00 to 10.00			
Bride & 'Main, fan and sp.....	12.00 to 15.00	10.00 to 15.00			
" extra.....	8.00 to 10.00	8.00 to 10.00			
" No. 1 and lower grades...	3.00 to 6.00	3.00 to 6.00			
Liberty, fancy.....	15.00 to 25.00	15.00 to 25.00			
" ordinary.....	3.00 to 10.00	3.00 to 10.00			
Richmond, fancy.....	10.00 to 25.00	10.00 to 25.00			
" ordinary.....	3.00 to 10.00	3.00 to 10.00			
Golden Gate, fancy.....	10.00 to 15.00	10.00 to 15.00			
" ordinary.....	2.00 to 6.00	2.00 to 6.00			
Chatenay, fancy.....	10.00 to 15.00	10.00 to 15.00			
" ordinary.....	2.00 to 8.00	2.00 to 8.00			
Carnations					
Fancy.....	4.00 to 6.00	3.00 to 6.00			
Ordinary.....	2.00 to 3.00	1.00 to 3.00			
Cattleyas.....	30.00 to 50.00	25.00 to 50.00			
Cypripediums.....	10.00 to 12.00	10.00 to 12.00			
Lily of the Valley.....	1.00 to 3.00	1.00 to 3.00			
Violets.....	.40 to .75	.25 to .60			
Tulips.....	2.00 to 4.00	2.00 to 5.00			
Roman Hy. Paper White Nar..	1.00 to 2.00	1.00 to 2.00			
Daffodils, Trumpets.....	3.00 to 5.00	2.00 to 4.00			
Mignonette.....	2.00 to 6.00	2.00 to 8.00			
Adiantum Cuneatum.....	.75 to 1.25	.75 to 1.25			
" Croweanum.....	1.00 to 1.50	1.00 to 1.50			
Smilax.....	8.00 to 15.00	8.00 to 12.00			
Asparagus Plumosus.....	25.00 to 35.00	25.00 to 35.00			
" & Sprenger, bunches	15.00 to 25.00	15.00 to 25.00			

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ALL VARIETIES

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\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

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HENRY M. ROBINSON & CO. 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main 2618

WHOLESALE FLOWER MARKETS. — PER 100. — TO DEALERS ONLY.

	CINCINNATI Jan. 30		DETROIT Jan. 22		BUFFALO Jan. 30		PITTSBURG Jan. 20	
ROSES								
Am. Beauty and Engely, fan and sp.	40.00	to 50.00	.....	to 60.00	50.00	to 60.00	40.00	to 50.00
" extra.....	25.00	to 30.00	.....	to 30.00	30.00	to 50.00	25.00	to 30.00
" No. 1.....	12.00	to 15.00	.....	to 15.00	15.00	to 25.00	12.50	to 15.00
" Lower grades.....	5.00	to 10.00	.....	to 8.00	8.00	to 15.00	.....	to 5.00
Bride and Maid, fan. and sp.	.....	to 10.00	.....	to 12.00	12.00	to 15.00	.....	to 12.00
" extra.....	6.00	to 8.00	.....	to 10.00	10.00	to 12.00	.....	to 10.00
" No. 1 and Lower gr	3.00	to 5.00	.....	to 6.00	5.00	to 8.00	5.00	to 8.00
Liberty, fancy.....	15.00	to 12.00	.....	to 15.00	10.00	to 15.00	8.00	to 20.00
" Ordinary.....	6.00	to 8.00	.....	to 4.00	10.00	to 10.00	4.00	to 6.00
Richmond, Fancy.....	.....	to 15.00	.....	to 15.00	.....	to 15.00	8.00	to 25.00
" Ordinary.....	.....	to 6.00	.....	to 6.00	.....	to 10.00	4.00	to 6.00
Golden Gate, Fancy.....	.....	to 10.00	.....	to 10.00	10.00	to 12.00	.....	to 10.00
" Ordinary.....	6.00	to 8.00	.....	to 6.00	4.00	to 8.00	.....	to 10.00
Chatenay, Fancy.....	.....	to 10.00	.....	to 10.00	.....	to 10.00	10.00	to 15.00
" Ordinary.....	.....	to 6.00	.....	to 6.00	.....	to 10.00	4.00	to 6.00
CARNATIONS								
Fancy.....	3.00	to 5.00	.....	to 4.00	3.00	to 5.00	3.00	to 5.00
Ordinary.....	.....	to 2.00	.....	to 2.00	2.00	to 3.00	1.00	to 2.00
MISCELLANEOUS								
Cattleyas.....	.....	to 50.00	.....	to 50.00	.....	to 50.00	.....	to 50.00
Cypridiums.....	.....	to 25.00	.....	to 25.00	.....	to 25.00	.....	to 25.00
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00	1.00	to 4.00
Violets.....	5.00	to 1.00	1.00	to 1.50	1.50	to 2.00	1.25	to 1.00
Tulips.....	1.00	to 5.00	2.00	to 3.00	3.00	to 4.00	2.00	to 5.00
Roman Hyacinth Paper White Nar.....	2.00	to 4.00	2.00	to 3.00	2.00	to 4.00	2.00	to 3.00
Danodius, Trumpets.....	3.00	to 4.00	.....	to 4.00	.....	to 4.00	2.50	to 4.00
Mignone to.....	.....	to 1.00	1.00	to 4.00	2.00	to 4.00	1.50	to 4.00
Adiantum Cuneatum.....	1.00	to 1.50	1.00	to 2.00	1.50	to 1.50	1.25	to 1.50
" Croweanum.....	.....	to 1.00	.....	to 1.25	.....	to 1.50	1.25	to 1.50
Smilax.....	12.50	to 15.00	12.50	to 15.00	12.50	to 15.00	12.50	to 15.00
Asparagus Plumosus, strings.....	40.00	to 50.00	40.00	to 50.00	40.00	to 50.00	35.00	to 50.00
" " Sprenger, bunches.....	.....	to 35.00	25.00	to 50.00	25.00	to 50.00	25.00	to 50.00

Geo. A. Sutherland Co. CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - - BOSTON

E. A. BEAVEN

Wholesale Dealer in

SOUTHERN WILD SMILAX

and Florists' Hardy Decorative Supplies.
New crop now ready in limited quantities
EVERGREEN, ALA.

Decorating Evergreens, etc., at Wholesale

Wild Smilax, Palmetto and Cycas
(fresh cut), Palm Leaves, Galax, Leucothoe, Ferns and Mosses, Leaf Mold,
Orchid and Azalea Peats.

Everything in Season.

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20 West 27th St., New York.

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Opah, Princess, E. Bonnefond, Alliance, Fred Lemon, Mrs. Brice, La Tusson, Mersham Yellow, Mildred Ware, Wm. Duckham, Amorita, Dr. Enguehard, Mrs. T. W. Pockett, Nellie Pockett, Ben Wells, F. S. Vallis, Mrs. Thirkell at \$2.50 per 100; \$20.00 per 1000.
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Anchor Greenhouse Hose is the best for
Florists.
Mineralized Rubber Co., New York.

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Painted, all sizes.

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Welch Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.
Wm. F. Kastling, 383-87 Elllicott St., Buffalo, N. Y.

Chicago.

For page see List of Advertisers.
J. A. Budlong, 37 Randolph St., Chicago.
E. H. Hunt, 76-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Reinberg, 51 Wabash Ave., Chicago.
A. L. Randall Co., 21 Randolph St., Chicago.
Wietor Bros., 51 Wabash Ave., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.
E. F. Winterson Co., 45, 47, 49 Wabash Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

Detroit.

For page see List of Advertisers.
Michigan Cut Flower Exchange, 38 & 40 Miami Av. Wm. Dilger, mgr.

New York.

For page see List of Advertisers.
Bonnot Bros., 55-57 West 26th St., New York.
J. S. Penrich, 48 W. 30th St., New York.
Ford Bros., 48 West 28th St., New York.
H. E. Froment, 57 W. 28th St., New York.
Alex. J. Guttman, 43 West 28th St.
E. C. Horan, 55 West 28th St., New York.
Philip F. Kessler, 55 W. 26th St., New York.
Julius Lang, 53 West 30th St., New York.
A. H. Langjahr, 55 W. 30th St., New York.
James McManus, 50 W. 30th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55-57 W. 26th St., New York.
A. Moltz, 55-57 W. 26th St., New York.
John J. Perkins, 115 W. 30th St., New York.
John I. Raynor, 49 W. 28th St., New York.
George Saltford, 46 W. 29th St., New York.
W. F. Sheridan, 39 W. 28th St., New York.
Traendly & Schenck, 44 W. 28th St., New York.
A. L. Young & Co., 54 W. 28th St., New York.
John Young, 51 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.
W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
Leo Nissen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
Phila. Cut Flower Co., 1516-18 Sansom St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue.

CARNATION BANDS.

H. F. Michell Co., Philadelphia.
For page see List of Advertisers.

CARNATIONS, ROOTED CUTTINGS.

E. Bohner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

COLEUS, VERSCHAFFELTII, GOLD-EN BEDDER.

H. N. Eaton, S. Sudbury, Mass.
For page see List of Advertisers.

FORCING STOCK, ROOTS, TUBERS, ETC.

E. W. O. Schmitz, Poughkeepsie, N. Y.
For page see List of Advertisers.

FUMIGATING KIND TOBACCO POWDER.

The H. A. Stoothoff Co., 119 West St., New York.
For page see List of Advertisers.

CATALOGUES RECEIVED.

Michigan Seed Co., Bay City, Mich.
—Northern grown farm seeds.

E. E. Stewart, Rives Junction, Mich.
Trade price list of gladiolus bulbs and hardy plants.

Green's Nursery Company, Rochester, N. Y. Fruit and ornamental trees and shrubs for mail order trade.

Schlegel & Fottler Co., Boston. A pretty garden scene from a photograph of two little children admiring a bed of sweet williams adorns the cover. Attractive, interesting and instructive from first to last page.

W. W. Rawson & Co., Boston.—Seed Catalogue for 1906. The front cover page carries some handsome Rawson vegetables embossed in colors, and paeonies have the back cover page to themselves. The book is well illustrated throughout.

The Conard & Jones Co.'s New Floral Guide for 1906 gives its covers to colored illustrations of Etoile de France and Baby Rambler roses. Roses occupy more than one-third of the entire bulk of the catalogue.

M. G. Madson Seed Company, Manitowoc, Wis., spring catalogue for 1906. Cactus dahlias on front and ripe corn on back form the subjects of cover illustration, in colors, and they are beautifully done. The contents comprise a host of good things for the flower and kitchen gardens.

Storrs & Harrison Company, Painesville, O., spring list for 1906. Baby Rambler rose in colors adorns the front cover, and a group of brilliant garden novelties are shown on the back cover. In illustrations and typographical excellence it reflects credit on the publishers, and it will be found worthy of perusal.

"Everything for the Garden" for 1906 is a masterpiece in catalogue making, of which Peter Henderson & Co. may well feel proud. "The Garden Beautiful" and "The Garden Bountiful" are the themes for cover illustration and the effect is particularly good. Besides innumerable half-tones, there are six colored flower plates.

GREENHOUSES BUILDING AND PROJECTED.

Townsend Harbor, Mass.—R. B. Baker & Son, one house 16x40.
Norwich, Conn.—Avery Bros., addition to house.
Hingham, Mass.—Mrs. Mason, one house, 20x90 ft.

LIST OF PATENTS.

Issued January 23, 1906.

810,793. Vegetation-Destroyer. William R. McKeen, Jr., and Arthur H. Fettes, Omaha, Neb.

810,835. Apparatus for Heating Propagating-Beds. Henry Austin, Felton, Del.

ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building

28 STATE ST., - BOSTON

Telephone, Main 58

A BARGAIN

I have for sale a modern range of greenhouses, 25,500 feet of gl ss., 1 1/2 miles from wealthy growing city of 28,000 people. Forty-five minutes from Pittsburg, Pa. Three railroads and express lines, 28 acres. Ideal soil for roses and carnations in abundance. Admirably adapted to the growing of small fruit and garden crops.

Sixty horse power boiler, steam heat. Free natural gas for all light and fuel for greenhouses, and farm buildings. A most complete private water system, 1,000 barrel storage tanks, large dam, never failing springs. Producing oil well on the farm. Buildings high and dry, away from all smoke, dust and dirt, fogs unknown, plants free from disease, houses well stocked and producing paying crops, best market selling high grade stuff direct to retailers. Best of reason for selling. Price, \$22,000, part on time, will show a net profit of 24% above expenses, can be increased. This offer will bear closest investigation.

S. S. SKIDELSKY

724 No. 24th St.

PHILADELPHIA, PA.

Are You To Build?
Going....

I am interested in a glass factory in Jersey. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted.

NOT IN THE TRUST.
Address

George C. Watson

1614 LUDLOW STREET Philadelphia, Penn.

Remember this factory is NOT in the TRUST and has a free foot

BOSTON PLATE & WINDOW GLASS CO.

Greenhouse Glass

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

WANTS.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th Street, Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

WANTED—A practical young nurseryman for the propagation and growing of native and ornamental nursery stock, perennials, etc., for a small nursery in the Northwest. Must know plants and be a hustler. Give references, experience and wages expected. Address "Park Nurseries," care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED TO RENT—Three or four greenhouses and grounds in the vicinity of Boston. Address M. B., care of HORTICULTURE, 11 Hamilton Place, Boston.

Consult Buyers' Directory and List of New Offers on Pages 148, 149 and 150.

"CHEAP" GREENHOUSE MATERIAL

We do not aim to furnish "cheap" material but to supply good material cheap.

To do this, an up-to-date factory, large facilities and a thorough knowledge of greenhouse construction is necessary.

We possess all of these qualities. Send today for our catalogue.

JOHN C. MONINGER CO.—Chicago
117 E. BLACKHAWK STREET



Standard Flower.. POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money
W. H. ERNEST,
28th and M Streets WASHINGTON, D. C.

PATENTS
Trademarks and Copyrights
Send your business direct to Washington. Saves time and insure better service. Personal attention guaranteed. Twenty-five years' active practice. SPECIALTY: "Working on the Failures of Others."
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building Washington, D. C.

PEERLESS REPAIR CLAMP
GLASS
MADE OF ZINC
TO Mend CRACKED GLASS IMMEDIATELY AND PERMANENTLY
For sale by jobbers. Box of 150 for \$1.00. Address
A. KLOKNER, Wauwatosa, Wis.

GURNEY HEATERS
FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE, 111 FIFTH AVE. 74 FRANKLIN ST. BOSTON

CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER
GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

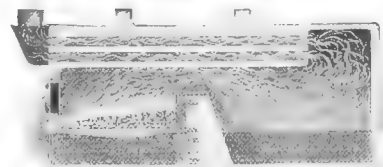
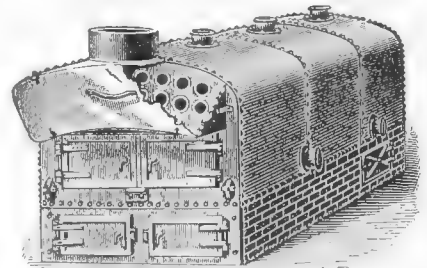
The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.
In writing advertisers, mention Horticulture

Holds Glass Firmly
See the Point #2
PEERLESS
Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.

CONSTRUCTION CO.
GREENHOUSE CONSTRUCTION AND EQUIPMENT
WRITE FOR CATALOGUE AND PRICES
N. TONAWANDA, N. Y. TORONTO, ONT.

SEND FOR CATALOGUE OF
SCOLLAY HOT WATER
and STEAM BOILERS
JOHN A. SCOLLAY
73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CIT

Kroeschell Bros. Co.
IMPROVED
Greenhouse Boiler,
35 Erie Street, CHICAGO.



Boilers made of the best material. Shell, firebox sheets and heads of steel water space all around front, sides and back. Write for information.

Greenhouse Material

Ask for our Special Catalogue No. 54, describing Boiler Tubes, Boilers, Tubes, Lumber and Supplies of every kind from the Fifty Million Dollar St. Louis World's Fair.

CHICAGO HOUSE WRECKING CO.
35th and Iron Sts. CHICAGO

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars, address

John G. Esler, Saddle River, N. J.



And Still Another Particularity

Last week we talked together about the exact way everything was fitted for an exact place before it left the factory,

now just a word about the iron frame that goes into some of our houses: First we do all our own casting, we then know the kind of iron that goes into them,—every piece is smoothed off and trued up by an expensive, finely adjusted machine. Then every part where moisture is apt to collect is galvanized by our own expert galvanizers, and this is what results: High quality iron making a splendid grade of castings, each fitted to a nicety; no rust at usual rust points. You know how rust works away night and day, playing havoc with the life of a house! We take care of the rust just the same careful way we take care of everything else,—**ANOTHER PARTICULARITY.**

SEND FOR CATALOGUE J-G.

BURNHAM HITCHINGS PIERSON CO.

Greenhouse
Designers and
Manufacturers

1133 Broadway, Cor. 26th St., N. Y.

Boston Branch: 819 Tremont Building

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish "PECKY CYPRESS"

Everything in PINE and HEMLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorn, - - - CHICAGO
Tel. North 1626 and 1627

SPECIAL NOTICE TO GREEN-HOUSE MEN

As cold weather crowds your fires, and worries your Hot Water Circulation

REMEMBER

that we can on short notice apply the

HOLLY-CASTLE ELECTRIC CIRCULATOR

and all your troubles will disappear. Then make a note of the coal you save by

INDEPENDENT CIRCULATION

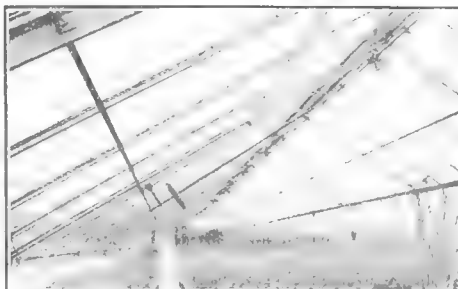
HOLLY-CASTLE CO., Engineers

49 FEDERAL ST., BOSTON, MASS.

Highest Type of Iron Frame Greenhouses

Minimum Shade
Maximum Strength

No Foot Sapping - a lot



Interior View

Glazed with 24 Inch Wide Glass



Write Wm. Anderson, Great Neck, L. I., for his opinion



Send for Catalogue

WEATHERED COMPANY, 46 Marion St., New York

HORTICULTURE

Vol. III.

FEBRUARY 10, 1906

No. 6



AN IRIS GARDEN
At Yokohama Nurseries, Japan

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

Three Sterling Carnation Novelties

Winsor, White Enchantress, and Helen M. Could

There is nothing about any of these varieties that we wish to conceal; therefore, we cordially invite all carnation growers to pay us a visit. Come at any time.

WINSOR—Winner of Lawson Silver Medal.

This is sure to prove a winner. Nothing approaches it in color, which is a clear silvery pink—a shade between Enchantress and Mrs. Thos. W. Lawson—and much more beautiful than either. In fact, it is just the shade that we have all been trying to get. The color will make it sell in any market. The stem is just right. The flowers are considerably larger than Lawson and much better shaped. As a grower it has everything that can be desired. So far we have not seen any large-flowering variety quite so free as Winsor.

WHITE ENCHANTRESS.

A pure white sport of Enchantress, at once the most popular and most profitable carnation grown today, on account of its size and stem and freedom with which it blooms. White Enchantress is identical in every respect but color. Those desiring quality as well as quantity will find it in White Enchantress.

HELEN M. COULD.

This is a beautiful variegated sport of Enchantress. The ground color is a lovely shade of clear pink, the variegation carmine, making an exquisite combination of colors, besides being something distinctly new. At a short distance the variegation does not show at all, the general effect being a beautiful shade of dark pink. Growth, habit, size, and stem are the same as Enchantress.

We have fine stocks, from which we can deliver healthy cuttings of Variegated Lawson, White Lawson, Red Lawson, Enchantress, Mrs. M. A. Patten, Lady Bountiful, etc.

Our Variegated Lawson is all that we claimed for it last season, and is giving the fullest satisfaction everywhere—the best in the variegated class. Come and inspect our stock of new and standard sorts

F. R. PIERSON CO.,

TARRYTOWN - ON - HUDSON, NEW YORK.

AT BOSTON

Robert Craig Wins Again

Lawson Bronze Medal over Victory

S. A. F. Bronze Medal over Victory and other scarlets

First Prize in 100 Class over Victory and all other scarlets

Not another scarlet carnation was able to take first honors away from Robert Craig

CRAIG WINS at all the shows

CRAIG WINS on the Wholesale market

CRAIG WINS on the retailers' counter

CRAIG WINS as a money producer

CRAIG WINS as a grower

CRAIG WINS as a first class Commercial Carnation

The introducers of Craig win out clean and fair for promptness in delivery and filling all orders on time and for a square deal in sending out only healthy, vigorous, well-grown selected cuttings.

Send in your order now — we can fill it promptly

\$3.00 for 25	\$25.00 for 250
6 00 for 50	50.00 for 500
12 00 for 100	100.00 for 1000

COTTAGE GARDENS COMPANY
Queens, N. Y.

5 per cent. discount for cash with order.

HANNAH HOBART

The Pride of California. The Grandest of Pink Carnations

A shade deeper than Lawson, blooms four to four and one half inches across, full and regular. Stems long and strong. Does not burst the calyx. Growth free and easy. A prolific bloomer. Its flowers wholesale for a higher price than any other carnation in the San Francisco market. (See illustration and full description in Horticulture of July 1, 1905.) Orders for rooted cuttings booked now and filled in rotation beginning January 1, 1906, at

\$3.00 per 12; \$15.00 per 100; \$120.00 per 1000

JOHN H. SIEVERS & CO.

1251 Chestnut Street

SAN FRANCISCO, CAL.

In writing advertisers, mention Horticulture

B. & A. SPECIALTIES Tuberous Rooted Begonias

We have just received from our European growers a splendid lot of handsome well-grown bulbs. We inspected these when blooming the past summer and can strongly recommend the bulbs we offer as the finest, large flowered strain grown in Europe:

	Per 100	Per 1000
SINGLE BULBS, 1st Size	\$2.50	\$23.50
2nd Size	2.00	19.00
DOUBLE BULBS, 1st Size	4.00	37.50
2nd Size	3.00	28.50

The prices quoted are for separate or mixed colors, consisting of scarlet, crimson, white, rose, yellow, bronze and orange. See our wholesale catalogue for other specialties.

BOBBINK & ATKINS,
Nurserymen and Florists RUTHERFORD, N. J.





We beg to announce to our customers and friends that commencing the 15th of February, 1906, we shall conduct our business under the name of

The Yokohama Nursery Company, Ltd.

whom we represented heretofore, with branches in Yokohama and London.

The business will be conducted in the same way as before, and no change in the present management will take place.

SUZUKI & IIDA

31 Barclay Street, - - New York City

NEW CARNATIONS

My Maryland, pure white, **Jessica** red and white variegated. Extra large, high grade commercial varieties. The finest and most profitable in their respective classes. Both varieties show extra strong Lawson habit, and similar height. We advise the alert grower to try both of these varieties.

\$2.50 per doz.; \$12.00 per 100;
\$100.00 per 1,000.

Send for our new catalogue giving full descriptions of the above, and other new and standard varieties.

The H. WEBER & SONS CO.
OAKLAND, MD.

CARNATIONS

H. A. Stevens Co. variety
Variegated Lawson Rooted Cuttings now ready. Also Mrs. M. A. Patten, Pink Patten, Enchantress, Harry Penn, Fair Maid, Boston Market, Lady Bountiful, T. W. Lawson. Send for prices.

HENRY A. STEVENS CO.
East Street, Dedham Mass.

RED SPORT

Sold on its merits alone.

	Per 100	Per 1,000
RED SPORT	\$5.00	\$40.00
QUEEN LOUISE	1.25	10.00

A. B. DAVIS & SON, Inc.
PURCELLVILLE, VA.

NEW CARNATIONS

ROBT. CRAIG, VICTORY
JESSICA

Immediate delivery.

Price \$12.00 per 100
\$100.00 per 1000

CHRYSANTHEMUM NOVELTIES

All the best of the year. If you have not received my list send for it.

CHARLES H. TOTTY
Madison, N. J.

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1,000
Fiancee.....	\$6 00....	\$50 00
Cardinal.....	6 00....	50 00
Patten.....	3 00....	25 00
Enchantress....	2 50....	25 00
Queen.....	2 00....	15 00
Maceo.....	2 00....	15 00
Lawson.....	2 00....	15 00
Fair Maid.....	2 00....	15 00
Challenger.....	2 00....	15 00
Prosperity.....	2 00....	15 00

G. WARBURTON, Fall River, Mass.

CARNATIONS

All the Best Varieties

J. D. THOMPSON CARNATION CO.

Joliet, Ill.

HOTHOUSE GRAPE VINES,

fine strong, two and three year old canes, Black Hamburg, Muscat Alexandria and other varieties

Rose Hill Nurseries,
NEW ROCHELLE, N. Y.

GIANT ASTER MISS KATE LOCK

Has been grown 48 inches high

Blooms 1/2 to 5 inches, stems 18 to 36 inches. Has SLACK CENTRAL. Taken all First Prizes, again at largest Exhibitions in Canada. Very often taken for Chrysanthemums. Colors, daybreak, white and mixed. Trade Price \$1.00. No Agents. Don't Send Checks

J. H. LOCK, Aster Specialist,
41 Manchester Ave., Toronto, Ont.

	Per 100	Per 1,000
RICHMOND ROSE 2 1/4 in.	\$12.00	\$100.00
KAISERIN " "	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
ENCHANTRESS	3.00	25.00
QUEEN and LAWSON	2.00	15.00

1st March delivery **E. H. PYE, FLORIST**
UPPER NYACK, N. Y.

BODDINGTON'S BEAUTIFUL BUTTERFLY BEGONIAS

SINGLE-FLOWERING TUBEROUS-ROOTED.

For planting in beds and where color effect is desired, my stock of these bulbs will be found true to color and free from mixture.

Large bulbs measuring 1 1/4 inches and upward.	Crimson, Scarlet, Pure White, Rose, Light Pink, Yellow, Salmon, Orange, Copper.	Separate colors, or all colors mixed.	Doz.	100	1000
			35c.	\$2.25	\$20.00
			Doz.	100.	
				\$1.50	\$10.00

Begonia Bertinii, single vermillion, \$1.50 \$10.00
Begonia Hybrida, the Butterfly, red mottled, white, very large 2 50 18.00
Cannas, a quarter of a million dormant roots. Send for catalogue containing varieties and prices.

DOUBLE-FLOWERING TUBEROUS-ROOTED.

These can be depended upon producing 100 per cent. double flowers and contain very large and choice show varieties.

Large bulbs measuring 1 1/4 inches and upward.	Crimson, Scarlet, Rose, pure White, Orange, Salmon, Yellow, Copper Bronze, Light Pink.	Separate colors, or all colors mixed.	Doz.	100	1000
			55c.	\$4.00	\$35.00

Double Begonias, Tuberous, especially adapted for bedding.

	Doz.	100.
Duke Zepplin , intense pure vermillion scarlet	\$2.00	\$13.00
Lafayette , rich brilliant crimson scarlet	2,50	18.00

ARTHUR T. BODDINGTON, 342 West 14th Street, NEW YORK.

J. E. FELTHOUSEN

GERANIUMS

We have at least 150,000 geraniums in 2 1/4 in. pots and in fine condition and the leaders at \$18.00 per 1,000; \$2.00 per 100.

	Per 100
Rose Geraniums , 2 1/4 in. \$18.00 per 1,000.	\$2.00
Ageratum Gurney, P. Pauline and others	
" 2 1/4 in.	2.00
" " K. C. . . . .	.60
Fuchsias all the leading varieties, 2 1/4 in.	3.00
Heliotrope , all dark, 2 1/4 in.	3.00
Sweet Alyssum 2 1/4 in.	2.00
Lobelia , 2 1/4 in.	2.00
Alternanthera , rooted cuttings. . . . .	.50
German Ivy , all rooted cuttings. . . . .	.50
English Ivy , extra fine rooted cutting	1.50
The World and all of Coleus R. C. \$1.00 per 100.	
\$5.00 per 1,000. Cash must accompany the order.	

J. E. Felthousen, Schenectady, N. Y.

PANSIES

Over one million plants ready from our Famous Strain. None better. \$1.50 per 500. \$2.50 per 1000.

Daisies (Bellis) fine plants, \$2.00 per 1000.
Forget-me-not, Hardy blue, \$3.00 per 1000.
Geraniums out of 2 1/2 inch pots, best varieties, \$1.50 per 100. 50,000 ready now.

J. C. SCHMIDT CO., - BRISTOL, PA.

Daisies, Daisies and Daisies

We are headquarters for **MARGUERITES**. We have 7 varieties and make it our specialty. Stock of 4 varieties is offered for sale and with a guarantee that it is entirely free from leaf miner or other insect pests. Prices on application. Flowers in any quantity October 1st to July 1st.

FLETCHER of AUBURNDALE.
 Stall 1. Boston Flower Market, Park St.

CYCLAMEN SEEDLINGS

ONCE TRANSPLANTED.

Giant Strain; none better; including Salmonum, New fringed, Roccoco and Papilio in five separate Colors.

\$2.50 per 100, \$22.00 per 1000.

C. WINTERICH, Defiance, Ohio.

Grafted Roses

All our grafted Roses are from flowering wood grafted on Dickson's Irish disjuncted Manetti stocks, and are now in exceptionally fine shape.

Killarney, \$15 per 100; \$150 per 1,000. **Bride, Bridesmaid, Kaiserin**, \$12 per 100; \$120 per 1,000. To prevent disappointment order now as stock is limited. **Own Root Richmond Roses**, \$12 per 100. **Killarney**, \$10 per 100. **American Beauty**, own root from 2 1/2 inch pots, \$6 per 100; \$50 per 1,000.

ROBERT SCOTT & SON, SHARON HILL, DEL. CO., PA.

Palms, Ferns

And Decorative Plants

A Fine Lot of **AZALEAS** in Great Variety

A Large Assortment of Ferns for Jardinieres
 Also, Araucarias, Rubbers, Pandanus, Aralias
 Dracaenas, Aspidistras, Marantas, Crotons
 etc., etc.

WHOLESALE PRICE LIST ON APPLICATION

A. LEUTHY & CO.

Importers and Exporters
 Growers and Dealers

PERKINS STREET NURSERIES
 Roslindale, Boston, Mass.

It is never too early nor too late
 to order the

Scott Fern

Best Commercial Introduction for many years
JOHN SCOTT

Flatbush, Brooklyn, New York.

NEPHROLEPIS BARROWSII, \$10 PER 100
SCOTTII, 5 " "
BOSTON, 3 " "

HENRY H. BARROWS & SON,
 Florists, Whitman, Mass

GODFREY ASCHMANN

1012 Ontario St., PHILADELPHIA

Importers of Araucaria excelsa, glauca,
 compacta, and robusta

PALMS and AZALEAS

Write for prices

COLD MEDAL STRAIN

BEGONIAS

Tuberous Rooted

	Per doz.	Per 100
Single White	\$0.35	\$2.25
" Yellow . . . . .	.35	2.25
" Nanken . . . . .	.35	2.25
" Pink . . . . .	.35	2.25
" Rose . . . . .	.35	2.25
" Red . . . . .	.35	2.25
" Dark Red . . . . .	.35	2.25
" Salmon . . . . .	.35	2.25
" Orange . . . . .	.35	2.25
" Mixed . . . . .	.30	2.00
Double White . . . . .	.65	5.00
" Yellow . . . . .	.65	5.00
" Orange . . . . .	.65	5.00
" Rose . . . . .	.65	5.00
" Dark Rose . . . . .	.65	5.00
" Dark Red . . . . .	.65	5.00
" Red . . . . .	.65	5.00
" Salmon . . . . .	.65	5.00
" Mixed . . . . .	.50	4.00

STUMPP & WALTER CO.

50 Barclay St., New York

Consult Buyers' Directory and List of
 New Offers on Pages 172, 173 and 174.

Orchids

Largest Importers, Exporters, Growers
 and Hybridists in the World

Sander, St. Albans, England

ORCHIDS

Arrived in superb condition — **Cattleya Trianae**, **Cattleya Gigas Sanderiana**, **Oncidium Fuscum**, **Oncidium Kramerianum** and **Burlingtonia fragrans**.

Lager & Hurrell, Growers and Importers, Summit, N. J.

ORCHIDS, PALMS

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ONYCHIUM JAPONICUM.



DOODIA ASPERA.

Doodia is a small genus closely related to Blechnum, having their fruit dots the same in one or more stripes on each side half way between the mid rib and the edge of the leaflets. They are very hardy, good decorative plants, requiring no heat, and very accommodating in regard to the place where they are grown. They are all of relatively dwarf habit, the foliage growing in a crown and resembling a many leaved little blechnum before they begin to branch out. In some of them the young fronds are of a beautiful rose turning from copper to very dark-green color, and of a very heavy texture. They like a very porous soil and good drainage and are easily propagated from spores which grow all over the greenhouse and under the benches. They can also be divided.

D. aspera, from Australia, is one of the most common. The simply pinnate dentated fronds about ten inches long are of a strong texture. The young fronds are of a very apparent red color. There are some crested forms from it in cultivation.

D. Blechnoides from Australia is one of the biggest growing species, resembling much *D. aspera*, but frond much longer and erect and does not branch out so readily.

D. caudata, from Australia and New Zealand, is a smaller, easy-growing species of softer texture, very common in greenhouses. The large leaflet is long.

D. dives, from Java, requires more heat. The fronds are larger and longer than in the others.

D. media var. *lunulata*, from New Zealand, is one of the nicest, of drooping habit. The leaflets are large, blunt at the top and eared at the base, set apart at the lower part of the frond and near together at the top.

The fertile fronds have the leaflets more narrow and longer; there are a few different forms grown.

Onychium is another small genus. There are only two species known in cultivation. They have their fruit dots like *Pteris* at the edges of the little leaflets. The edges are reflexed over the spore masses as indusiums. They like to be grown in loose soil and are easily propagated from spores and division. Their fine foliage is a good substitute for *adiantum*, is of heavier texture and keeps much longer.

O. Japonicum, the most common, is a native of Japan and Himalaya. It is cold house fern, very finely cut and of good durability.

O. auratum, from Himalaya, resembles much the preceding, but grows on single crown. The fertile leaflets are a little rolled up and of yellow color underneath. It does not like too much moisture, especially when young.

Am. Dutham

Tuberous Rooted Begonias

(See Colored Supplement)

The tuberous-rooted begonia is a very valuable flowering plant for the embellishment of the garden in summer time. Probably none other remains in flower for so long a time while giving such a brilliant display. It thrives far better when the summer is showery or even wet than if the weather during that time is hot and dry. Should the latter be the case the plants do not grow so freely, neither do they produce such

fine blooms as when the soil keeps moist and the atmosphere cool. Neither does their flowering season last so long.

There are now some very beautiful varieties on the market, and they are being added to annually. There are singles, doubles, crested, fringed, picotee-edged and even other sorts; some of the newest of the double ones are as perfect in contour and as delicate in coloring as the loveliest tea rose, the most elegant camelia, or the purest nymphaea. The hybridist has achieved wonders among these flowers. Not only has he added grace and elegance and greater variety of coloring to the blooms, but he has made the plants more floriferous, the flower stalks larger and stronger, and the blossoms to be borne erect. The latter is an important point; the flowers of the older sorts hung their heads on weak stems and so half their beauty was lost.

The varieties shown in the accompanying colored supplement are Mrs. Moger (salmon); Countess of Warwick (yellow and orange); and the Right Hon. J. Chamberlain (crimson). They were raised and sent out by Messrs. Blackmore and Langdon, Twerton Hill Nursery, Bath, where, as in the nurseries of other firms in this country, one may see in summer time a brilliant carpet of these showy flowers covering a large area of ground. An English begonia farm, when in the height of its beauty, rivals even the famous bulb fields in Holland. Even from seed sown in January you can get good flowering plants the first year; in fact it is the plants less than one year old that make such a gorgeous display in the nurseries. They are raised from seed sown in January, and are eventually planted out in early summer. Any rogues there may be among them are weeded out during the summer months, and finally when the frosts have put an end to their flowering period, which may be said to extend from July to October, the bulbs are harvested, ready for sale the following spring.

The tuberous begonia as we know it today, represented by varieties that range through innumerable and indefinable shades of color, owes its origin to the inter-crossing at different times of no less than five species: (1) *Begonia boliviensis*, with small, drooping, bright red flowers, which was introduced in 1864 from Bolivia; (2) *Begonia Pearcei*, also found in Bolivia and sent to England in 1865; it was from this species that the yellow flowered forms were first obtained; (3) *Begonia rosæflora*, introduced in 1867 from Peru, which has round, pale red flowers; (4) *Begonia Veitchi*, also found in Peru and introduced in 1867; the roundish flowers of present day varieties owe a good deal to this species; (5) *Begonia Davisii*, of dwarf habit and with scarlet blooms, found in Peru and sent over here in 1876. All these species were found by collectors sent out by Messrs. Veitch and Sons, Ltd., by whom they were put into commerce. The first white variety was raised by continual selection from the palest forms of *Begonia rosæflora*.

Harry H. Thomas

British Horticulture

A NEW TOMATO

The Rev. G. T. Laycock, a horticultural enthusiast, of Tenwick, Hants, has brought out a new tomato, named after himself. Last season it was grown by two other farmers besides himself, including one at Gurnsey. The latter out of 200 seeds raised 194 plants which were tried in pots. These were found excellent croppers. The fruit is of perfect shape, also of a good color when ripe. This grower had 3000 plants ready to plant out in the second week in January. Further experiments are to be made with the variety. Amongst those who have secured seed is Byron D. Halstead, professor of botany and horticulture at the New Jersey State Agricultural College, who had received a good opinion as to the tomato from Prof. W. W. Tracy of the United States Department of Agriculture. The variety is likely to become popular for market purposes.

THE CULT OF THE SWEET PEA

The National Sweet Pea Society have just published a very attractive annual, full of useful information and appropriate illustrations. Amongst the latter is an excellent picture of Messrs. W. Atlee Burpee & Co.'s sweet peas at the Lewis and Clarke Exposition, Portland, Oregon. In another reproduced photograph Mr. Burpee is seen amongst a wide expanse of sweet peas, chatting with the late veteran raiser, Mr. Henry Eckford. A third picture, taken when Mr. Burpee visited Europe last summer, shows the American expert in a sweet pea garden with Mr. Alfred Watkins, the president of the society, and Mr. Robert Sydenham, of Birmingham, one of the vice-presidents. The audit of the last show, published in the book, indicates the increasing popularity of sweet peas in this country. The total varieties shown were 119. It is announced that the society will hold a show in London on July 5th, and one at Ulverston, in Lancashire, on July 20th. Among the prizes is a 50 guinea cup, offered by Mr. Henry Eckford, of Wem, as a memorial to his late revered father.

THE WINTER FLOWERING CARNATION SHOW

I learn from Mr. Hayward Mathias, the prime mover in the matter, that satisfactory progress is being made with the arrangements for holding the first show of winter-flowering carnations at the Royal Horticultural Hall, on Feb. 13th. The National Carnation and Picotee Society were asked to organize a show of this character, but they were unable to take the additional responsibility. It is also intended to hold a meeting, at which a proposal will be made for forming a winter-flowering carnation society. "I think it very essential that we should have a society of this kind," Mr. Mathias informed me, "seeing how increasingly popular the American varieties are becoming in this country." One of the matters which it is necessary should be taken up by the society, when formed, is the registration of the new varieties to prevent over-lapping. Mr. Mathias favors the adoption of the plan which has been in vogue with the American Carnation Society to secure a proper registration as each new sort is brought out. There have been cases where an American variety has been brought over and sold in this country under a new title, and this has caused confusion and annoyance in trade circles.

W. H. Adsett.

London, Eng.

Exhibition Groups

Any attempt to advise on "The art which doth mend Nature" must necessarily be on broad lines, leaving nice points of detail to the inspiration of the moment, according as individual taste may direct; the plea now made is for more adequate forethought and preparation with regard to a fixed plan or central idea, around which the material to hand may be most artistically fitted to the best advantage.

Too little pains are often taken to provide an effective exhibition. Viewed as a whole, there is not seldom an incongruity of separate exhibits, coupled with overcrowding of really good material which defeats the whole purpose in view. Much might be done in this matter by the executive as well as the more effective distribution of specimens for the decoration of the building, but for an ideal place there is no better setting than a large conservatory with its hanging creepers, tree ferns, palms, etc., minus, of course, gaudy banners and artificial trimmings. There is much to be said for a trade group in a corner or side position in preference to a central place; less material is required and the whole may be viewed at a glance with greater effect. A good space area being secured, not only the general effect, but the object may be attained of bringing out in bold relief all rare or striking subjects either by massing together, or by individual elevation or isolation. As a general rule the massing of stiff looking flowering plants is to be commended, giving as it does if they are kept low a suggestion of solid worth and thus securing attention; by these means, combined with a more natural arrangement of foliage plants, the two ideas of solidity and grace may be harmoniously attained; an exception to massing, however, should be made with orchids, as they are best suited to an irregular setting amid greenhouse plants and ferns. An open, light arrangement should be aimed at, pairing and stiffness being broken up as much as possible. At the same time, with the massed groups, a certain conformity to the original outline of the main group, be it either star, oval or irregular, should be adhered to; this repetition in outline of the larger whole, in miniature, may be carried out with fine effect; this uniformity of purpose may be lightly veiled by the introduction of a graceful plant into the centre of each group, also of smaller dot plants, standing well up above the rest of the mass of blooms, filling in the intervening spaces between each group with a suitable foil of foliage, adapted to each separate group of colors. A fine centre specimen plant is a necessity in a large hall and medium specimens of a more airy character as isolated corner plants may be used, but always anything in the way of banking up with foliage plants should be avoided except in the way of filling to hide stools, pots, etc. The main outline should be irregular with jutting points and scalloped curves, and on the outside tiny groups of anything choice, the whole being neatly edged with fresh mountain moss. Much might be said of color blending, but as a general rule violent contrasts should be avoided; let graduation between extremes be the rule, adapting also the foliage plants to the flowering with this end in view.

Cards should be small and neatly, yet plainly written and attached to thin, green-painted sticks; everything required should be carefully thought out beforehand and noted on paper; nothing must be left to chance. If a suitable place can be found the whole group may be set up beforehand and packed in vans in the order required; nothing leads to confusion when

time is limited like waiting for a needful item or looking for it among the general disorder.

These are a few hints and general rules which make for success; promptness, forethought, order and a plan will carry a man far, but if one lacks the fine insight for shape, tone and adaptation, then opportunities for creating and linking together nice points of detail, may be missed. It is said the true artist is born, not made, but if the love of beauty is within, experiment, patient application and experience will bring one to the knowledge of what is natural and what is best.

Edgar Elvine

Winter Flowering Sweet Peas

Editor HORTICULTURE:

A few weeks since I saw a short article on Sweet Peas in Winter by William Sim (from HORTICULTURE) given in the Journal of Horticulture, of London. As I was experiencing the difficulty mentioned of getting the ordinary summer varieties to bloom now, I am writing to you to see if Mr. Sim will give a little more information, and say what are the varieties that will bloom during autumn and winter, about what heat he recommends for them, and any other particulars he may think necessary to grow them well. Should he be willing to contribute a further article on the subject, it will be appreciated. I am, dear sir,

Yours truly,

D. ARKELL.

Sussex, England.

Editor HORTICULTURE:

In answer to your inquiry of the 22nd with enclosed letter, the following notes may be of some benefit to your correspondent. The varieties I have grown for autumn and winter flowering are as follows: Burpee's Earliest of All, Burpee's Sunbeams, Mont Blanc, Christmas White, Christmas Pink, Christmas Red and Florence Denzer.

Mr. Zvolanek of Bound Brook, N. J., who is a sweet pea specialist in winter blooming varieties, sent me some new varieties on trial. These include a great variety of colors, the best noted being the color of Catherine Tracy, and some fine purples. Burpee is now sending out Earliest White, habit being similar to Earliest of All. This will undoubtedly be a fine addition.

It will be seen in a short time the winter blooming varieties will be as varied in their color as the summer-flowering varieties, and the quality of blooms will simply outclass the present summer-flowering varieties. Perhaps it may not be out of place to state that my peas are now in full crop, Earliest of All and Christmas now standing 10 feet high with blooms from base to top. Mont Blanc now stands 12 feet high, and is a mass of bloom. This variety looks as if an additional four feet of vine will be added before this crop is finished, which will be about May 1st. With vines twelve to sixteen feet in height it will be seen that high and light houses are best adapted to the sweet peas in winter. The rows are five feet apart. A night temperature of 50 degrees with a rise of 10 to 15 degrees through the day in bright weather has been the rule.

William Sim

Cliftondale, Mass.

HORTICULTURE

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WM. J. STEWART, Editor and Manager.

Our supplement

We present our readers with another colored plate, with this issue. Tuberous begonias are the subject and we hope that the beautiful picture may serve its purpose in directing attention to the rapid advances being made in the improvement of this unrivalled summer bedding plant. Advertisements of tuberous begonias in this number should not be overlooked.

Let us hear from you

For the gardener or florist, be he learner or expert, nothing is more essential today than good reading, if he would hold a dominating position in his profession. Realizing this and responsive to the oft-expressed wish of the craft, HORTICULTURE's intention is to provide its patrons with the best reading matter obtainable. If you have in mind any topic on which you desire more light, write and let us know and we shall endeavor to meet the want.

The festive board and the fraternal spirit

The club or society banquet is a great harmonizer. Under the genial influence of the fraternal spirit engendered, the wicked competitor seated across the table looks almost human and all discordant impulses are dissipated in the smoke of the club cigar. Once a year is too seldom for these reunions with their opportunities for making new friendships and freshly cementing old ones. It is not the cost of the symposium that gives it its quality but the spirit of family accord and cheery festivity which abounds when all rivalries of business put away for the time being, we meet as brothers all.

The coming exhibition of roses

Those of our readers who can possibly do so should plan to be in Boston on the occasion of the annual meeting and exhibition of the American Rose Society, March 23 and 24.

The combined exhibition of this organization and the Massachusetts Horticultural Society will afford a rare opportunity for the progressive gardener or florist to gain new ideas and fresh stimulus for work on advanced lines. The gathering of experts promises to be a notable one and the benefits of personal contact with these men amid such surroundings cannot be adequately estimated. The expense and time involved are as nothing when compared with the substantial profits to be gained.

The commercial value of the exhibition

It was estimated that fully ten thousand people visited the recent carnation exhibition in Boston on one day. To anyone not an incurable pessimist the enormous pecuniary value to the trade of this public inspection of the choicest product of the florist's art must be readily apparent. And the direct business results are insignificant as compared with the elevating of popular ideals whereby the people become better informed as to standards of quality and are educated away from cheap grades and curbstone values. The local retail florist, as a direct beneficiary, does not always realize the importance to him of promoting these enterprises. Good judgment, even from the most selfish standpoint, should impel him to line up as an active supporter of all such affairs, for, the more his customers see and hear on these lines the more interested they will become in him and his goods.

The florists' club and the retail dealer

Why the majority of the retail flower dealers in the metropolitan centers absent themselves from the meetings and festivities of the local trade clubs and societies is a problem as old as the history of the florists' clubs and a satisfactory solution seems as far off as ever. It is true that in this department of the trade leisure evenings are a rare luxury but in the case of the growers this impediment is pretty well balanced by the greater distance of the latter from the meeting places. The plea sometimes set up, that no encouragement or welcome is extended to the retail store element by those in official position seems very weak. As a spring cannot rise any higher than its source so an organization cannot be expected to extend its scope beyond the topics that interest its active workers. The doors being wide open to all, it remains only for any element or interest to assert itself. He who stays away and then complains that his interests are neglected may expect to have his sincerity questioned. What do they say "down east" about the man who will neither fish nor cut bait?



OBITUARY.

M. Ernest C. M. Fierens.

Death has been very busy of late among eminent European horticulturists. The gentleman whose demise it is our sad duty now to record was a man of world-wide fame for, as the secretary of the Royal Agricultural and Botanical Society of Ghent, he was known and respected not only by those numerous visitors to the great quinquennial horticultural shows that have been held for so many years in the quaint old Belgian town where he lived, but also by other friends who had the honor of his personal acquaintance. Like his old friend and colleague, M. de Meulenaere, who predeceased him only by a few weeks, M. Fierens was by profession a lawyer, but yet found time to devote much energy to the work of organizing the great floral festivities for which Ghent has, so long been renowned. He was also an ardent amateur and a frequent exhibitor. As a judge his services were in constant request at home and abroad, and the last time we had the pleasure of meeting him was at the chrysanthemum show of the French N. C. S. at Lille in 1903. Although we thought he had aged considerably since our last meeting yet he was still as of old, genial, courteous and hopeful of great things when his society should celebrate its centenary in 1908, active preparations for which are now being made.

M. Ernest Constant Marie Fierens, to give him his full name, was a solicitor at the court of appeal at Ghent, a knight of the Order of Leopold, an officer of the Merite Agricole of France, a distinction conferred upon him for meritorious services in connection with horticulture. He was also an honorary member of several of the leading horticultural societies in Europe. His death occurred on the 19th January last, in his 65th year.

M. O. de Meulenaere.

We have now to refer with pain to the death of M. O. de Meulenaere of Gendbrugge, a Belgian enthusiast in horticulture and an exhibitor at most of the famous Ghent Horticultural gatherings. The deceased was a busy man, the President of the Court of Appeals at Ghent, but he found time for the delights of horticulture. We remember with pleasure some of his very fine exhibits of chrysanthemums there, and also the service he rendered to the cause of chrysanthemum nomenclature by his literary work. In 1890 he published his "Liste descriptive des Chrysanthemes d'hiver," which contained the names of all the varieties then known and grown in Europe, with raisers' names, dates of introduction, section and description. This work was continued by the publication of a supplement four years later, and then came a second and a third supplement, which brings us to the year 1898. It was largely a labor of love, but the service to horticulture was considerable, for it placed on record particulars that could probably not now be got together at all. As a work of reference we even now have frequent occasion to refer to it.

M. de Meulenaere suffered from a long and painful illness, and died at his residence on December 7 last. He was an honorary fellow of the National

Chrysanthemum Society of England, and held the society's silver gilt medal for the work he accomplished in preparing the catalogue already referred to. He was also commander of the Order of Leopold and had several other orders. C. HARMAN PAYNE.

Mrs. A. D. Wood.

Mrs. A. D. Wood died at her home in West Newton, Mass., on Feb. 5. Mrs. Wood has been an invalid for a number of years. Previous to her illness she had been one of the most faithful attendants at the meetings and exhibitions of the Massachusetts Horticultural Society and was a constant exhibitor, displaying much artistic taste in the arrangement of flowers. Her bright, amiable, kindly temperament made her a great favorite with everyone who knew her and sincere sympathy has been extended during her long illness by a host of friends, who held her in affectionate esteem. Her husband, E. W. Wood, is well known as a member of the State Board of Agriculture. One son, Elijah A., is also well known as a chrysanthemum expert, and another, W. K., represents the Florists' Exchange at Chicago.

Frank W. Dobbs.

Frank W. Dobbs, who has been associated with Wadley & Smith, as manager of their New York store, died at his home in Scarsdale-on-the-Hudson, on Feb. 6, aged 31 years. He was a bright, popular young man, and his untimely taking away is keenly felt by a large circle of friends in the trade.

NEWPORT NOTES.

We have in Newport a park commission, the members of which are appointed by the Mayor. In the past the commission was not overburdened with a knowledge of things horticultural—not their fault, however—but His Honor the Mayor of today is a member of the Newport Horticultural Society, and that is enough to lead us to think that when a vacancy occurs a horticulturist will be asked to fill it.

The following three estates in Newport are undergoing complete renovation: Mrs. John Nicholas Brown's, Mr. W. S. Wells' and Mr. George Gordon King's. At Mrs. Brown's the most important feature will be hardy plants and extensive shrubberies. At Mr. Wells' the purchase of the adjoining estate made it necessary to remodel the whole, which is being effected by the moving of very large trees. A continuous terrace will be constructed around three sides of the residence, upon which choice evergreens and box will be planted. At Mr. King's the work chiefly consists of providing vistas through the many large and beautiful trees, and bordering all the grounds with shrubberies.

AN ENDORSEMENT FOR MY MARYLAND.

We have received through H. Weber & Son copy of a letter from a customer who had received a few plants of carnation My Maryland on trial. These plants, which were from late propagated stock and not large when delivered in September last, have thrived and are declared to be the strongest growers in the establishment, with an exceptional production of high-grade blooms.

A WORD FROM PRESIDENT FISHER.

Editor HORTICULTURE:

In your issue of last week I note your editorial commenting on a quotation from the Florists' Exchange wherein my remark as to the "exhibiting of worthless carnations at the A. C. S. meetings is a menace" to its progress and usefulness, is grossly misconstrued.

First let me say that few carnation growers in this country interpreted my meaning as trying to "down" or belittle the efforts of the small grower. Quite the contrary. My protest was entered in behalf of this class who are usually the sufferers. The "big fellows" usually go around and buy on their own judgment. But the rank and file usually invest in a novelty, from an estimate of what they hear or read of its commercial value. A carnation may be almost perfect during the fall and early winter and again from March on, but simply worthless during late December, January and February, and when any introducer discovers a variety developing such defects, he has no right to impose upon the trade by disseminating it and hiding this fault. This is what I meant in my address when I stated: "Which the exhibitor well knows will not stand inspection in his greenhouses at this season of the year."

I have always considered myself one of the "small growers," and my endeavor shall be to increase their number in our membership, not detract from it.

Later I shall have something more to say on this matter, which I consider of the most vital importance not only to the well being of the American Carnation Society but to every carnation grower.

PETER FISHER.

Ellis, Mass., Feb. 7, 1906.

NEWS NOTES.

The Hinode Florist Company, New York, has incorporated, with capital of \$10,000.

Mrs. May Fisher, of the firm of Fisher & Son, will hereafter do business in her own name at 537 Main St., Worcester, Mass.

E. H. Hunt, Chicago, has incorporated, with capital stock of \$40,000. The incorporators are C. M. Dickinson, William E. Lynch and Edgar A. Buzzell.

Mr. William Scott, for many years foreman for Poehlmann Bros. at their greenhouses at Morton Grove, Ill., has purchased a half interest in the business of William Cunningham of Grand Rapids, Mich., and the new firm will be ready for business about March first.

At the meeting of the New York Florists' Club on Monday evening, February 12, carnations and orchids will be the objects of special interest, and a fine exhibition is promised. The following cash prizes will be offered for carnations: Best 25 blooms in four distinct varieties, first, \$15; second, \$10; third, \$5; best 25 blooms displayed, \$5.

How big are the blooms of that carnation seedling you are fondly cherishing? Send to Kroeschell Bros., 35 Erie street, Chicago, for one of their measuring devices. Ingenious, unimpeachable, and may be had for the asking.

NEWS OF THE CLUBS AND SOCIETIES.

NEW YORK FLORISTS' CLUB'S ANNUAL DINNER.

It was a very merry affair in which about fifty members of the New York Florists' Club participated last Saturday evening. As to the repast it is sufficient to say that it was under the auspices of the well trained committee which has officiated for so many years and at the St. Denis hotel, which is a guarantee of its high quality.

After the eating was finished, President John Scott called to order, and expressing the hope that all had left their troubles behind and would have a good time, he introduced the gifted toastmaster, Patrick O'Mara. Mr. O'Mara remarked that the intention was to devote the evening to entertainment and a jolly good time rather than to an intellectual feast, and, therefore, no program had been prepared. So he would simply turn on the gas and let things take their course. A toast to departed members was drunk in silence, standing, and then George B. Nash of the N. Y. Botanical Garden was introduced. Mr. Nash spoke of the relations between botanical garden work and horticulture and advocated work on broader lines by the scientific institutions. Horticulture, he said, takes the cold facts of scientific investigation and amplifies them, clothes them and gives them the warmth of life. As compared with botanical gardens abroad he declared that our collections in this country lack variety.

The toastmaster then addressing the ex-president, F. H. Traendly, spoke of the demand upon the time and brains of one filling the position of president and complimenting that gentleman upon the popularity and success attend-

ing his administration, handed him in proof of the esteem of his fellow-members a beautiful diamond pin. Tumultuous cheers followed the presentation. In response, Mr. Traendly expressed his deep appreciation of the gift and generously attributed such prosperity as the club had enjoyed, to the loyalty of the members and the good work of his predecessors. He expressed his belief that the time is not far distant when a waiting-list for applicants for membership will be a regular feature.

E. V. Hallock made a very interesting and witty speech, quoting from Burns and Bacon, and expressing his deep affection for floriculture and those engaged in it. Another gem among the speeches was that by treasurer C. B. Weathered, who congratulated the club on the interest being manifested by the younger element. He advocated the securing of a permanent club room.

Jas. T. Scott, being introduced as a drummer, denied the soft impeachment and contributed a merry speech replete with Scottish logic. Alexander Wallace next discoursed upon the horticultural press, the "art preservative," telling of the value of the press to the profession, its readiness to welcome criticism and its devotion to the best interests of its patrons.

C. H. Totty being given the toast "New Jersey," where the horticulturists' lot is encumbered with malaria and mosquitoes, switched off and talked of the club instead and his delight at the prospect of active work ahead for the trustees of which he had been recently elected a member.

A vote of thanks was given the dinner committee to which Walter F.

Sheridan responded, a vote of condolence to the absentees to which nobody responded. Mr. Hilton spoke for the cemetery florists and Mr. Donohoe for the retailers, regretting that so few of them were in evidence on this glorious night. A. L. Miller followed on the same subject and then with a round of cheers for the toast-master the pleasant evening came to a close.

Between the speeches a clever vaudeville delegation entertained with song and story, with choral effect by the audience. The talents of the members were well-represented by the Rickard Brothers and J. B. Nugent whose vocal abilities were received with appreciative applause.

NEW JERSEY HORTICULTURAL SOCIETY.

A large number of friends gathered to help celebrate the twelfth installation dinner of the New Jersey Horticultural Society at their rooms on February 2. The gathering was informal and the speeches brief and witty. Among the speakers were Arthur Herrington, Chas. H. Totty and J. Austin Shaw. The Morris County delegation was large; the fun fast and furious particularly toward the close of the evening; the refreshments harmless, and the musical program much enjoyed. A large floral display filled the benches, with Peter Duff's Euphorbia jacquiniæflora with its bending sprays adorning the central position; an entire table of orchids and Lorraine begonia sent by William Barr and grown by A. W. Bodwell; carnations Victory from Guttman & Weber; Winsor the recent prize winner at Boston, Helen M. Gould and White Enchantress from F. R. Pierson Co.; and orchid blooms from Lager and Hurrell and Thomas Jones. A Laelia anceps Stella grown by A. W. Bodwell received 95 points. Some New York State apples were displayed by J. B. Davis, who has recently been at the growers' convention at Rochester, showing how things were done there. The judges for the evening were C. H. Totty, Arthur Herrington and Robt. M. Schultz.

JOS. B. DAVIS, Sec'y.

TARRYTOWN HORTICULTURAL SOCIETY.

The regular monthly meeting of this society was held in the Vanderbilt building on Tuesday evening, Jan. 30, President Joseph Mooney in the chair. A fine exhibit was made and the prize, a clock given by Mr. Joseph Bradley of Dobbs Ferry for the best 12 sprays of mignonette, was won by John Featherstone, Greystone, Yonkers. Joseph Bradley received honorable mention for a fine vase of Her Majesty mignonette.

The event of the evening was an essay on "Mignonette" by Mr. Bradley. This was followed by an interesting discussion on the queries in the Question-Box.

The annual fall exhibition will be held in Music Hall, Tarrytown, on Oct. 30, 31 and Nov. 1.

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Haines' New Red...	12.00	100.00
Cardinal, best scarlet of all.....	6.00	50.00

	Per 100	Per 1000
Harlowarden, best crimson	2.00	15.00
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QUEEN BEATRICE

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

A delegation of club members will attend the annual banquet of the North Shore Horticultural Society on Thursday, Feb. 15. Members are invited to take 10.45 a. m. train at North Union

station. A number of prominent North Shore estates will be visited before the banquet. The return to Boston will be made on train leaving Manchester at 10.10 p. m. **W. N. CRAIG,** Secretary.

NEWPORT HORTICULTURAL SOCIETY.

The meeting nights of the Newport Horticultural Society have been changed from the first and third Wednesdays to the second and fourth Tuesdays. But one exhibition will be given this year and it is expected that this one will, in point of attractiveness, equal any two heretofore held. This exhibition will be in the Casino some time in August.

AMERICAN ROSE SOCIETY.

The annual report and bulletin of this society has been issued from the office of Secretary W. J. Stewart. It contains much that will prove of interest and value to the rose grower and dealer, every one of whom should identify himself with the organization and thus become entitled to receive a copy of this book.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

The annual meeting of the executive board will be held in Dayton, Ohio, on Monday, March 5, 1906. Members of the society or others having suggestions to make whereby the usefulness of the organization may be increased and the good of the profession promoted in any of its branches, are cordially invited to send such suggestions in care of the secretary and they will receive careful attention. Address, Wm. J. Stewart, Secretary, 11 Hamilton Place, Boston.

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Aquilegia coerulea hybrida .	15
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" Haylodgensis delicatissima (new) 14	
Astilbe Davidi (new) .	34
Campanula Persicifolia grandiflora .	30
" Moerheimi (new) 14	
Chrysanthemum , "Stasia Daisy" per 1,000 seeds .	50
Coreopsis lanceolata grandiflora .	10
" "Golden Fleece" (new) 17	
Delphinium Formosum .	15
" Coelestinum .	30
" Gold Medal Hybrids .	50
Digitalis gloxiniaeflora, mixed .	10
" maculata superba .	15
Eupatorium Coelestinum .	20
Gailardia Grandiflora superba .	15
Gypsophila paniculata .	10
Helianthus Grand. Cupreum (new) .	10
" Helianthus, finest perennial mixed .	25
Heliopsis Pitcherianus semi-plenus (new) 17	
Hollyhock , Double, in separate colors .	20
" mixed .	20
Lychnis Chalcedonica .	10
Platycodon grandiflorum .	10
Polygonum compactum .	10
Poppy , Orientale .	20
" Hybrids .	25
" Nudicaule, mixed .	10
Pyrethrum hybridum, single .	15
" double .	100
" Uliginosum .	30
Rudbeckia purpurea .	25
Stokesia cyanea .	25
Sweet William , single .	10
" double .	10
Tritoma hybrida, mixed .	50

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California Privet , 2 year, 1 1-2 to 2 feet, well branched, shapely stuff, per 1000		25.00
California Privet , 2 to 2 1-2 feet, well branched and shapely, per 1000		35.00
Wm. Robinson Phlox , the best hardy, salmon pink variety on the market, 2 year, field grown clumps, extra value, per 100		8.00
Allegheny Ben's Hollyhocks , An extra fine strain of this popular hollyhock, per 100		3.00

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Stock Plants of Chrysanthemums

The following at **75c. per doz.**, **\$5.00 per 100**: G. S. Kalb, Ivory, Alice Byron, Eaton, Chadwick, yellow and golden, Jerome Jones, Robt. Halliday, Col. Appleton, Salter, Yellow Eaton, Yellow Jones, Glory Pacific, Wm. Duckham, Brutus, Maud Dean, Marie Liger.

Rooted Cuttings of Carnations

Boston Market, Queen Louise, Lawson, Harlowarden, \$2.00 per 100; Vesper, Enchantress, \$2.50 per 100; Mrs. Patten, Lady Bountiful, \$3.00 per 100; White Lawson, \$3.50 per 100; Victory, Jno. E. Haines, \$12.00 per 100; \$100 per 1,000.

Roses: Grafted Stock

(from 2 1-2 inch pots, Killarney, Wellesly, Liberty, \$20.00 per 100, \$150.00 per 1,000. Richmond, \$25.00 per 100, \$200.00 per 1,000.

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FLORISTS' CLUB OF PHILADELPHIA.

At the regular meeting of this organization, on Tuesday, Feb. 6, there was a large attendance, and many excellent exhibits were staged. Carnations were shown in grand shape by Guttman & Weber, F. R. Pierson Co., J. E. Haines, E. A. Stroud, H. Weber & Sons, Cottage Gardens, W. J. & M. S. Vesey, Peter Fisher and others. Papers on the results of the recent carnation meeting at Boston were read by A. M. Herr and E. A. Stroud. It was arranged to have a ladies' night in latter part of this month. At the meeting March 6, Mr. Huebner will talk on railroad gardening, and there will be an exhibition of roses.

LENOX HORTICULTURAL SOCIETY.

The regular meeting of this society was held Feb. 3, President Carlquist presiding. The society has arranged to hold its annual dinner Feb. 17. March 3 has been set apart for Carnation Night, and March 17 for Rose Night. It was decided that three shows be held this year, namely, Rose and Strawberry Show, June 26; Annual and Perennial Show, Aug. 15; Chrysanthemum Show, Oct. 24-25. Schedules for the first two and preliminary schedules for Oct. 24 and 25 will be printed, and anyone interested can receive same on application to the secretary.

GEORGE FOULSHAM,
Secretary.

CLUBS AND SOCIETY NOTES.

The annual banquet of the North Shore Horticultural Society will be held at Town Hall, Manchester, Mass., on Thursday, February 15, at six o'clock.

At the meeting of the society on Feb. 2, President James MacGregor was presented with a handsome oak roll-top desk and chair.

The next meeting of the Horticultural Society of New York, will be held on Wednesday, the 14th inst., at 8 o'clock p. m., in the rooms of the American Institute, 19-21 W. 44th street. It will be Carnation Night. Robert Craig of Philadelphia, will speak on "Carnations Past and Present," and the following prizes are offered for cut blooms: Fifty white, 50 pink, 50 red, 50 crimson, 50 variegated. First prize, \$6.00; second, \$4.00.

The Montreal Florists' and Gardeners' Club held their annual dinner at the Lakeside Hotel, Lachine. About 50 sat down to a very enjoyable repast after which a very pleasant evening was spent, with the usual toasts, speeches and songs. President Dawes of the Lachine Horticultural Society made a speech in which he thanked the members for their friendly visit and extended them a hearty welcome. Wm. Ewing responded with a long speech on Seed Trade, in reply to the toast, "The Seed Trade."

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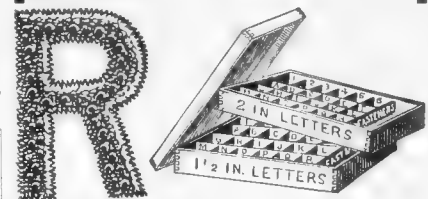
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Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

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CHICAGO
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"THE OLD RELIABLE"

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CUT FLOWERS

EDWARD REID, Wholesale
Florist

1526 Ranstead Street, PHILADELPHIA
Store Closes 8 P. M.

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO Jan. 30			ST. LOUIS Jan. 27			PHILA. Feb. 7			BOSTON Feb. 8		
ROSES												
Am. Beauty and Edgely Fan. & Sp.	40.00	to	50.00	35.00	to	40.00	.....	to	75.00	40.00	to	60.00
" Extra.....	25.00	to	40.00	25.00	to	30.00	50.00	to	60.00	20.00	to	30.00
" No. 1.....	16.00	to	24.00	10.00	to	20.00	25.00	to	35.00	12.00	to	15.00
" Lower grades.....	6.00	to	8.00	4.00	to	8.00	10.00	to	15.00	4.00	to	8.00
Bride & 'Maid—Fan. & Sp.....	8.00	to	10.00	.....	to	8.00	.....	to	20.00	8.00	to	12.00
" Extra.....	7.00	to	8.00	4.00	to	6.00	.....	to	15.00	6.00	to	8.00
" No. 1 and Lower gr.....	5.00	to	6.00	.....	to	3.00	6.00	to	12.00	2.00	to	6.00
Liberty, Fancy.....	8.00	to	10.00	.....	to	.....	25.00	to	30.00	12.00	to	25.00
" Ordinary.....	4.00	to	8.00	.....	to	.....	8.00	to	12.00	8.00	to	12.00
Richmond, Fancy.....	8.00	to	12.00	6.00	to	8.00	20.00	to	25.00	25.00	to	30.00
" Ordinary.....	4.00	to	8.00	4.00	to	5.00	12.00	to	15.00	8.00	to	12.00
Golden Gate, Fancy.....	8.00	to	10.00	6.00	to	8.00	12.00	to	15.00	8.00	to	12.00
" Ordinary.....	6.00	to	8.00	4.00	to	5.00	6.00	to	10.00	2.00	to	6.00
Chatenay, Fancy.....	10.00	to	12.00	6.00	to	8.00	15.00	to	20.00	8.00	to	10.00
" Ordinary.....	6.00	to	8.00	4.00	to	5.00	6.00	to	10.00	2.00	to	4.00
CARNATIONS												
Fancy.....	3.00	to	5.00	3.00	to	4.00	4.00	to	5.00	3.00	to	4.00
Ordinary.....	1.50	to	2.50	2.00	to	2.50	2.00	to	3.00	1.00	to	2.00
MISCELLANEOUS												
Cattleyas.....	40.00	to	50.00	.....	to	.....	.....	to	50.00	.....	to	50.00
Cypripediums.....	12.00	to	16.00	.....	to	.....	.....	to	.....	.....	to	12.00
Lily of the Valley.....	3.00	to	4.00	3.00	to	4.00	2.00	to	5.00	2.00	to	4.00
Violets.....	.75	to	1.50	.35	to	.50	.50	to	1.00	.20	to	.50
Tu ps.....	.....	to	4.00	3.00	to	4.00	3.00	to	4.00	1.50	to	2.00
Romans Hy., Paper White, Nar.....	3.00	to	.....	2.00	to	3.00	2.00	to	3.00	1.00	to	2.00
Daffodils; Trumpets.....	4.00	to	.....	.....	to	.....	2.00	to	3.00	1.50	to	2.00
Mignonette.....	6.00	to	10.00	2.00	to	6.00	3.00	to	4.00	2.00	to	.....
Adiantum Cuneatum.....	.....	to	.75	.....	to	1.00	.75	to	1.00	.75	to	1.00
" Croweanum.....	.....	to	1.00	.....	to	1.00	1.00	to	1.50	.....	to	1.50
Smilax.....	12.00	to	16.00	12.50	to	15.00	12.50	to	15.00	8.00	to	12.00
Asparagus Plumosus, strings.....	40.00	to	50.00	25.00	to	50.00	.....	to	50.00	.....	to	.....
" " & Sprengeri bunches	30.00	to	35.00	25.00	to	50.00	50.00	to	75.00	.....	to	50.00

J.A. BUDLON

37-39 Randolph Street, CHICAGO

Roses and
Carnations
A Specialty.....

WHOLESALE
GROWER of

CUT FLOWERS

PHILADELPHIA CUT FLOWER CO.

Wholesalers of Cut Flowers

1516 AND 1518 SANBOM ST.

VICTORY

The most prolific of scarlets, is a fancy in the fullest sense of the word, requires only ordinary culture, wholesaled at \$25.00 per 100 at Christmas.

Cut Flower Market Reports.

This market is practically **BOSTON** barren as regards American Beauty roses and blooms of good finish are almost out of the question. Bride and Bridesmaid roses are more abundant than they were one week ago. On the other hand carnations and violets are received in unwieldy abundance and prices are downward tending. Bulbous stock is very much overstocked. Yellow narcissi have broken the market. Local and out-of-town shippers are loading the wholesale dealers with blooms of finest quality, the prices for which are disproportionately low. Carnations are fine as to quality, but realize low figures excepting in the case of rare novelties.

The volume of business **BUFFALO** was largely augmented on Saturday and Monday in consequence of the heavy demand for carnations. Monday, the 29th, McKinley Day, was previously well advertised by florists and press, which helped considerable to swell the sales, reports stating that more sold this year than previous years. The demand for white was small, and consequently a good many were carried over. Roses sold well under normal supply and prices hold firm. Bulbous stock came in fast but moved fairly well, considering the amount handled. Demand was best on yellow tulips. Lily of the valley of fine quality could be seen, but sales were not brisk. Violets were quite plentiful and at times many sold below list price. Lilies were more plentiful, while peas and mignonette, quality good, sold rapidly. Sales of southern smilax and other greens improved somewhat. The thermometer dropping to zero for a few days brought some stock in frosty condition.

There has been but **CINCINNATI** little change in the condition of the cut flower market during the past week. A scarcity of roses is to be expected at this season of the year and in this we are not disappointed. It has been a long time since first-class stock was as scarce as it is now in Cincinnati, but that which is one man's loss is another's gain. If the public can't get roses they take something else instead. Just now bulbous stock receives a hearty welcome; especially is this true regarding colored flowers, such as tulips and daffodils. Several large wedding orders have been booked for this month, in which Harrisii lilies will play an important part. Lily of the valley is coming in nicely and finds a ready sale. In fact, anything

in the cut flower line that is fairly good is eagerly taken. Green goods are also scarce and if you get what you want it is because you have placed your order in advance.

Business seems to keep **DETROIT** pretty lively although not as brisk as last week, but the cut flower demand holds steady. These flowers affected by the recent mild weather should certainly display their best efforts now that the glass has reached zero. Roses still continue to come under requirements.

Business conditions the **LOUISVILLE** previous week were very satisfactory with some very cold weather. Carnations in quality are only fair; the supply is very satisfactory, with the demand good. Roses found a good demand, with the quality and supply about up to expectations. Lilies of the valley and violets find a satisfactory demand, the quality of the latter being very good. Mignonette, narcissus, hyacinths and other bulbous stock moves up to expectations, with the supply generally good.

On most lines of cut **NEW YORK** flower stock, on which receipts are heavy, business is exasperatingly slow, and sales in quantity are made at very low figures, in order to unload. This applies with especial force to bulbous material, carnations and the lower grades of all varieties of roses. Strictly special American Beauty Roses are very scarce and obtainable only in small lots from even the largest growers; hence, for the time being these bring record prices for this season of the year. The retail florists generally report the best winter business thus far since 1903.

During the past week **PHILADELPHIA** the volume of business was about normal with no very decided features worthy of mention. Beauties were not plentiful but demand was a little off, and the same may be said of Liberties and Richmonds. Brides were scarce, and there was rather more than the usual demand. The quality of both these and Bridesmaids was very good. Chatenays and Golden Gates were about the only other varieties that cut much figure. Enchantress is still on top in the carnation line. All varieties of carnations are fairly plentiful and of good quality. Lilies, single and double daffodils, and tulips are in evidence with active call; especially for fancies of the last mentioned. Paper whites and Roman hyacinths are being disposed of in great quantities, but they ought to be brought in more gradually. Cypridiums are nearly over, and it will not

be long before cattleyas will be on the scarce list. There is more lily of the valley coming in than the market will absorb; but with careful handling prices are being kept steady.

PHILADELPHIA NOTES.

The Millbrook-Lea Greenhouses had a severe fire on the 4th inst. It started in the boiler room. The whole plant was put out of commission. Loss not stated at this writing, but heavy. This establishment is at Whitford, Pa., 28 miles from Philadelphia.

Howard McKissick, lately associated with his brother W. E. McKissick in the wholesale cut flower business, has bought out another line of trade out in the country. H. Kreinberg takes his place with Mr. McKissick.

We hear of a new begonia around Newport called "Scarlet Gem" which is said to be something very fine, and is supposed to be a dwarf form of the Erfordi type of very free blooming habit and very brilliant color, making it a grand thing for bedding. Can HORTICULTURE give us any authentic information about it?

Mr. and Mrs. Robert J. Halliday of Baltimore passed through here recently on their way home from the honeymoon. Mr. Halliday has family relatives in Philadelphia and a pleasant gathering took place at The Colonade on the 5th inst. The reception was strictly private but Mr. Pennock heard of it and managed to surprise the guests with a bunch of flowers for the dinner table.

The H. F. Michell Co. report a heavy demand for English mushroom spawn this season, and have been greatly astonished at the call for the new "pure-culture" of American manufacture. This is in line with the experience of others in the seed trade lately.

BUSINESS CHANGES.

Mrs. L. J. Denton has leased the greenhouses of Miss Lincoln on Park avenue, Plainfield, N. J.

The Wilcox Canadian Land Co. was recently incorporated, to handle about 12,000 acres of land recently purchased near Winnipeg, by J. F. Wilcox of Council Bluffs, Ia. Capital stock, \$50,000.

The store opened about two months ago by Newman, at the corner of Mathewson and Westminster streets, Providence, R. I., is closed, and the business has been transferred to their Boston store.

President T. W. Head delivered an instructive lecture on "Fertilizers, and How to Use Them," before the New London Co. Horticultural Society, Conn., on Jan. 30.

FRANK MILLANG

Wholesale Commission Florist

COOGAN BUILDING

55-57 W. 26th Street, NEW YORK

Tel. 299 Madison Sq. Open 6 A. M. to 5 P. M.

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48 West 28th Street, NEW YORK

FINE ROSES FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS

Telephone, 3870 or 3871 Madison Square.

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THE WHOLESALE

FLORIST

OF NEW YORK

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WE HAVE A GOOD OPENING
for a grower of lily of the valley and general bulbous stock. Would like to communicate with growers of good bulbous flowers. Can handle them at good prices. Also asparagus plumosus. Let us hear from you.

A. L. YOUNG & CO.

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Best Facilities for Supplying you at Lowest Daily Market Prices

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THE HIGHEST GRADE OF VALLEY ALWAYS OF HAND

BEST BEAUTIES, METEORS, BRIDES AND BRIDESMAIDS

JAMES McMANUS, Telephone 759 Mad. Sq. 50 W. 30th St., New York**H. E. FROMENT**

Successor to Wm. Ghormley

Wholesale Commission Florist

CHOICE CUT FLOWERS

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New York.

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FOR GOOD PRICES AND CASH RETURNS

send your flowers to

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55 West 26th Street, New York.

Telephone 2921 Madison Square.

GEORGE SALTFOED

Wholesale Commission Dealer In

Cut Flowers

CONSIGNMENTS DESIRED

46 W. 29th Street, New York

Tel. 3393 Madison Sq.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Feb. 3 1906	First Half of Week beginning Feb. 5 1906		Last Half of Week ending Feb. 3 1906	First Half of Week beginning Feb. 5 1906
Roses			Carnations		
Am. Beauty and Edgeley fan and sp.	50.00 to 75.00	50.00 to 75.00	Fancy	3.00 to 6.00	3.00 to 5.00
" extra	30.00 to 40.00	30.00 to 40.00	Ordinary	1.00 to 3.00	1.00 to 3.00
" No. 1	25.00 to 30.00	25.00 to 30.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
" Lower grades	3.00 to 10.00	3.00 to 10.00	Cypripediums .....	.....	.....
Bride & 'Maid, fan and sp.	10.00 to 15.00	10.00 to 15.00	Lily of the Valley	1.00 to 3.00	1.00 to 5.00
" extra	8.00 to 10.00	8.00 to 10.00	Violets .....	.25 to .60	.25 to .60
" No. 1 and lower grades	3.00 to 6.00	3.00 to 6.00	Tulips	2.00 to 5.00	2.00 to 4.00
Liberty, fancy	15.00 to 25.00	15.00 to 25.00	Roman Hy., Paper White Nar. ..	1.00 to 2.00	1.00 to 2.00
" ordi. ary	3.00 to 10.00	3.00 to 10.00	Daffodils, Trumpets	2.00 to 4.00	2.00 to 3.00
Richmond, fancy .....	..... to 25.00	..... to 50.00	Pignonette	2.00 to 8.00	2.00 to 8.00
" ordinary .....	..... to 25.00	..... to 50.00	Adiantum Cuneatum .....	.75 to 1.25	.75 to 1.25
Golden Gate, fancy	10.00 to 15.00	10.00 to 15.00	" Croweanum .....	..... to 1.50	..... to 1.50
" ordinary	2.00 to 6.00	2.00 to 6.00	Smilax	8.00 to 12.00	8.00 to 12.00
Chatenay, fancy	10.00 to 15.00	10.00 to 15.00	Asparagus Plumosus	25.00 to 35.00	25.00 to 35.00
" ordinary	2.00 to 8.00	2.00 to 8.00	" & Sprenger, bunches	15.00 to 25.00	15.00 to 25.00

JOHN YOUNGWholesale **FLORIST**

51 West 28th St., New York

Telephone, 4463-4464 Madison Sq.

Best Beauties, Brides and Bridesmaids.
Lily of the Valley, Orchids and
Lilies. Renowned Cottage
Garden Carnations.**Edward C. Horan**

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Tel. 1462
1463 Madison Sq.

New York

TRAENDLY & SCHENCK
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Furnish best stock at fair prices all the year round Send for quotations on fall orders

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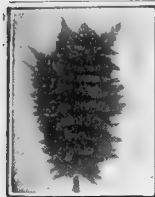
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Young & Nugent

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Fancy Ferns

\$1.25 per 1000
Discount on Regular Shipments

Wholesale Florists
30 and 40 Miami Ave., DETROIT, MICH.

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Manager

Charles Millang

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Cut Flowers on Commission

A Reliable Place to Consign to or order from
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Commission Merchant's in Cut Flowers
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OPEN 6.00 A.M.
AN UNEQUALLED OUTLET FOR CO-SIGNED FLOWERS

The Reliable Commission House

Richmond Roses and Rich Flowers
of all varieties

JOS. S. FENRICH

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Consignments received, sold well
and returns made promptly.

53 WEST 30th ST. NEW YORK
Telephone, 280 Madison Sq.

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JOHN J. PERKINS

WHOLESALE and COMMISSION FLORIST

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Wanted.—A few more reliable growers of
Carnations and Violets. Quick returns and
highest prices.

Established
1891

BUY FROM
SHIP TO
TRY

ALFRED H. LANGJAHR

All Choice Cut Flowers in Season

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Telephone 3924 Madison Square.

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504 Liberty Ave.,

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Cut Flowers

BOSTON'S BEST
ALL VARIETIES

SHIPPED TO ALL POINTS

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Largest Stock in New England
Lowest Wholesale Rates

N.F. McCarthy & Co.

84 HAWLEY ST.

Tel. Main 5973

BOSTON

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS

NEW CROP SOUTHERN WILD SMILAX \$3.50 and \$7.00 per Case.

Headquarters for all FLORISTS' SUPPLIES, Wire Designs Cut Wire, Letters,
Immortelles, Cycas Leaves, Wheat Sheaves, Ribbons, Corrugated Boxes, etc.,
LAUREL FESTOONING, 6c. and 6c. per yard.

HENRY M. ROBINSON & CO. 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main 2618

WHOLESALE FLOWER MARKETS. PER 100. TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	Feb. 6		Jan. 30		Feb. 6		Feb. 6	
ROSES								
Am. Beauty and Edgely, fan and sp.	40.00	to 50.00	.....	to 60.00	50.00	to 60.00	50.00	to 60.00
" extra.....	25.00	to 30.00	.....	to 30.00	30.00	to 50.00	30.00	to 40.00
" No. 1.....	12.00	to 15.00	.....	to 15.00	15.00	to 25.00	15.00	to 20.00
" Lower grades	5.00	to 10.00	.....	to 8.00	8.00	to 15.00	5.00	to 8.00
Bride and Maid, fan, and sp.....	.....	to 10.00	.....	to 12.00	12.00	to 15.00	10.00	to 12.00
" extra.....	6.00	to 8.00	.....	to 10.00	10.00	to 12.00	.....	to 8.00
" No. 1 and Lower gr.....	3.00	to 5.00	.....	to 6.00	5.00	to 8.00	4.00	to 6.00
Liberty, fancy	10.00	to 12.00	.....	to 10.00	10.00	to 15.00	10.00	to 15.00
" Ordinary	5.00	to 8.00	.....	to 4.00	4.00	to 10.00	.....	to 6.00
Richmond, Fancy.....	.....	to 15.00	.....	to 15.00	.....	to 12.00	12.00	to 20.00
" Ordinary.....	.....	to 6.00	.....	to 6.00	.....	to 6.00	6.00	to 8.00
Golden Gate, Fancy.....	8.00	to 10.00	.....	to 10.00	10.00	to 12.00	.....	to 8.00
" Ordinary.....	4.00	to 6.00	.....	to 6.00	4.00	to 8.00	.....	to 4.00
Chatenay, Fancy.....	.....	to 10.00	.....	to 10.00	.....	to 10.00	10.00	to 12.00
" Ordinary.....	.....	to 6.00	.....	to 6.00	.....	to 4.00	4.00	to 6.00
CARNATIONS								
Fancy	3.00	to 5.00	.....	to 4.00	3.00	to 5.00	3.00	to 5.00
Ordinary	1.50	to 2.00	.....	to 2.00	2.00	to 3.00	1.50	to 2.00
MISCELLANEOUS								
Cattleyas .....	.....	to 50.00	.....	to 50.00	.....	to 50.00	.....	to 50.00
Cypripediums.....	.....	to 25.00	.....	to 25.00	.....	to 25.00	.....	to 25.00
Lily of the Valley	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00	1.00	to 3.00
Violets .....	.50	to 1.00	1.00	to 1.50	.50	to 1.00	.50	to 1.00
Tulips	5.00	to 5.00	2.00	to 3.00	2.00	to 3.00	1.00	to 4.00
Roman Hyacinth Paper White Nar.....	2.00	to 4.00	2.00	to 3.00	2.00	to 4.00	2.00	to 2.00
Daffodils Trumpets.....	3.00	to 4.00	.....	to 4.00	.....	to 4.00	1.00	to 3.00
Mignonette.....	.....	to 1.00	1.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Adiantum Cuneatum.....	1.00	to 1.50	1.00	to 2.00	.50	to 1.00	.....	to .75
" Crownatum .....	.....	to 1.25	.....	to 1.25	1.25	to 1.50	1.25	to 1.50
Smilax.....	12.50	to 15.00	12.50	to 15.00	12.00	to 15.00	12.50	to 15.00
Asparagus Plumosus, strings.....	40.00	to 50.00	25.00	to 30.00	10.00	to 50.00	40.00	to 50.00
" " & Sprenger, bunches.....	to 35.00	25.00	to 50.00	25.00	to 50.00	25.00	to 50.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

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E. A. BEAVEN

Wholesale Dealer in

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and Florists' Hardy Decorative Supplies.
New crop now ready in limited quantities
EVERGREEN, ALA.

Decorating Evergreens, etc., at Wholesale

Wild Smilax, Palmetto and Cycas
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Everything in Season.

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20 West 27th St., New York.

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Opah, Princess, E. Bonnefond, Alliance, Fred Lemon, Mrs. Brice, La Tuson, Merstham Yellow, Mildred Ware, Wm. Duckham, Amorita, Dr. Enguehard, Mrs. T. W. Pockett, Nellie Pockett, Ben Wells, F. S. Vallis, Mrs. Thirkell at \$2.50 per 100; \$20.00 per 1000.

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Painted, all sizes.

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PATENTS.

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Patents, Trade Marks, and Copyrights.
25 years' active practice.

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- The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.



"My experience with the Fumigating Kind Tobacco Powder prompts me to say that it is the best and most convenient insecticide that I have ever discovered." C. J. REYNOLDS, Po'keepsie, N. Y.

Why not ask for a free five pound trial sample, its convincing; it only costs you the express charge. Its no new tangled thing, hundreds write of it like Mr. C. J. Reynolds. Our booklet tells h w to fumigate a house 100x25 feet with it for fifteen cents.

THE H. A. STOOHOFF COMPANY, 119 West Street, New York City, N. Y.

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Philip F. Kessler, 55 W. 26th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
James McManus, 50 W. 30th St., New York.
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Frank Millang, 55-57 W. 26th St., New York.
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Pierce Nursery, Beverly Farms, Mass.

CANNA, QUEEN OF BEAUTY.

Frank Cummings Bulb & Plant Co., Meridian, Miss.

CARMAN'S ANTIPEST.

Perfection Chemical Co., Flushing, N. Y.

FUMIGATING KIND TOBACCO POWDER.

The H. A. Stoothoff Co., 119 West St., New York.

GRAFTED ROSES.

Robert Scott & Son, Sharon Hill, Pa.

GREENHOUSE BUILDING MATERIAL.

Foley Mfg. Co., Chicago.

SPIRAEA.

W. W. Rawson & Co., Boston.

TUBEROUS ROOTED BEGONIAS.

A. T. Boddington, 342 W. 14th St., New York.

TUBEROUS ROOTED BEGONIAS.

Bobbink & Atkins, Rutherford, N. J.

TUBEROUS ROOTED BEGONIAS.

H. H. Berger & Co., 47 Barclay St., New York.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

WANTS.

WANTED—First class store man, one who is good decorator and maker-up. Must also take care of small conservatory and do some planting in spring. State salary expected, age, etc. Address Lewis, care HORTICULTURE.

WANTED Rose grower, with good references for section 12 miles from Boston. Write, stating experience and wages required. A. care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED First class foreman for Rose Houses, experienced in American Beauty growing. Married. Salary at first \$75.00 per month with house. Address Rose House, care HORTICULTURE, Boston.

Are You Going... To Build?

I am interested in a glass factory in Jersey. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted.

NOT IN THE TRUST.
Address

George C. Watson

1614 LUDLOW STREET Philadelphia, Penn.

Remember this factory is NOT in the TRUST and has a free foot

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th Street, Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

A BARGAIN

I have for sale a modern range of greenhouses, 25,500 feet of glass, 1½ miles from wealthy growing city of 28,000 people. Forty-five minutes from Pittsburg, Pa. Three railroads and express lines, 28 acres. Ideal soil for roses and carnations in abundance. Admirably adapted to the growing of small fruit and garden crops.

Sixty horse power boiler, steam heat. Free natural gas for all light and fuel for greenhouses, and farm buildings. A most complete private water system, 1,000 barrel storage tanks, large dam, never failing springs. Producing oil well on the farm. Buildings high and dry, away from all smoke, dust and dirt, fogs unknown, plants free from disease, houses well stocked and producing paying crops, best market selling high grade stuff direct to retailers. Best reason for selling. Price, \$22,000, part on time, will show a net profit of 25% above expenses, can be increased. This offer will bear closest investigation.

S. S. SKIDELSKY

724 No. 24th St.

PHILADELPHIA, PA.

WANTED TO RENT—Three or four greenhouses and grounds in the vicinity of Boston. Address M. B., care of HORTICULTURE, 11 Hamilton Place, Boston.



GREENHOUSE MATERIAL.
OF ALL KINDS
FOLEY MFG. CO. 471 W. 22ND ST. CHICAGO
VENTILATING APPARATUS PURLIN FITTINGS, HOT-BED SASH & C.
SEND FOR NEW FREE ILLUSTRATED CATALOGUE -

WHAT?

"What,—buy material from an outside firm? Not I."

"For twenty years I have purchased my greenhouse material at home and know what I get."

Even with that kind of a florist we would like to discuss greenhouse construction.

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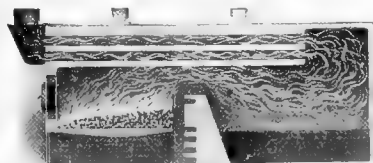
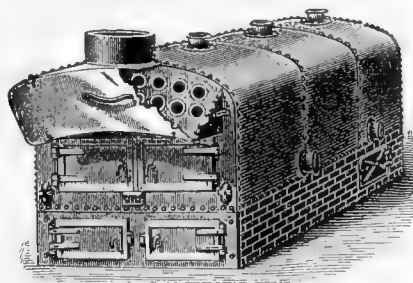
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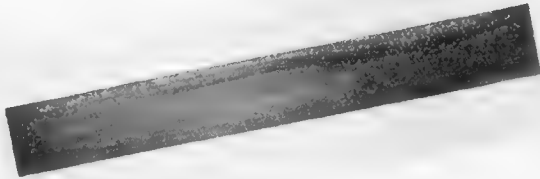
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HORTICULTURE

Vol. III.

FEBRUARY 17, 1906

No. 7



PRIMULA SIEBOLDII.

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Flamingo, crimson.
Florence Vaughan, yellow.
Shenandoah, salmon, dark foliage.
Robusta, dark foliage, tall.
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J. D. Eisele, scarlet.
Cinnabar, red, gold edge.
Beaute Poitevine, red, gold eye
The above per 100, \$2.50; per 1,000, \$20.00

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Pierson's Premier, scarlet, very dwarf.
Queen Charlotte, crimson, gold edge.
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Souv de A. Crozy.
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H. A. Stevens Co. Variety

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HORTICULTURE

VOL III

FEBRUARY 17, 1906

NO. 7

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Ruellia Macrantha



Ruellia is a very nice genus of plant from the Acanthaceæ family nearly all coming from South America and West Indies. They are very showy, but seldom seen in cultivation, and it is surprising that a plant like *Ruellia macrantha*, which is not new, but certainly one of the most showy flowering plants, is not more generally cultivated for Christmas and New Year's trade. It flowers for more than two months from December to February, keeps well as an apartment plant and for the conservatory it is of the greatest value. The trumpet-shaped flowers grow in terminal bunches, two to six open at one time, each bloom individually about two inches broad and of a nice magenta rose color—dark when grown near the light. It makes, when well-grown, nice bushy plants with handsome foliage, about two feet high.

Two-year-old plants are the best. They have to be cut back late in the spring and pinched if some branches have a tendency to run up. They like a light, rich soil

with plenty of water and may be kept during summer pot-buried in an old frame in full sun. It is well to move them once in a while to keep the roots from growing out of the pots. At the end of September when the nights begin to cool they have to be shifted into bigger pots, taken in and placed as near the glass as possible. In this way they will make much stronger, shorter, shoots than when grown in houses and the flowers will be more numerous. A little liquid manure will help them.

They are propagated from cuttings, which grow readily, and when made early flower the first year, but will not make the nice bushy plants they will the second and thereafter. The picture shows a three-year-old plant.

Am. du Ham

Pruning Ornamentals

To the Editor of HORTICULTURE:

Dear Sir—I was very much interested in the article upon pruning ornamentals, by R. L. Adams in your issue of January 27.

I heartily endorse every word of the article with the exception of the paragraph in which he advises the heading back of elms, oaks and maples. Head in an American elm and cause it to make a low, dense head and you have robbed it of its tall, straight stem and long, springing branches which, surmounted by a noble crown, are the features from which it derives its grandeur. Also, the acute angle which is formed by two or more branches as they rise from the trunk renders the tree liable to split in a storm. By beheading a young elm this liability is increased as a cluster of new leads at once forms around the severed end; the base of these new leads forms a weak and unnatural union which sometimes proves disastrous as the tree reaches maturity. I could point out more than one fine elm which has suffered from this cause; and in repairing one which had thus suffered, I found decided evidence of the top of the small tree which had been

overgrown but which had proved a source of weakness and eventual ruin to the tree. The same will apply in a measure to the maples. But if you want a tree with a low round head why not plant a maple instead of an elm?

The long, lank, appearance of the maples spoken of by Mr. Adams, to be found along roadside and in parks is to be accounted for by the fact that roadside trees are invariably crowded, and their lower limbs are trimmed off to make way for traffic. In parks where they are planted in groups, those trees which grow on the outside of the groups make a pathetic effort to cover the naked legs of the group by producing low growing limbs. The maple and the oak given plenty of room to grow will produce rounded, symmetrical heads, each characteristic of its species, graceful and sturdy and which cannot be improved upon by the work of the skillful pruner.

Thomas White

British Horticulture

DAHLIA CULTURE

The National Dahlia Society have just issued their annual report which is of a highly satisfactory character. They have also published a supplement to their official guide, in which the following revised selection is given of the 24 best cactus varieties for exhibition: - Alexander, dark crimson, flushed maroon; Clara G. Stredwick, salmon tinted yellow; Columbia, vermilion, tipped white; Conrad, terra-cotta; Crepuscule, yellow shading to amber; Ella Kraemar, rosy pink; Fairy, white; F. H. Chapman, apricot; Florence M. Stredwick, pure white; George Gordon, yellow, shaded orange; Harbour Light, orange red; H. F. Robertson, dog yellow; Ianthe, yellow-buff, edged pink; J. B. Riding, centre plum; Lady Colin Campbell, pale yellow, shaded orange; Mrs. H. L. Brousson, yellow, shaded salmon; Mrs. J. J. Crowe, yellow; Pearl, pearly pink, tipped white; Premier, crimson scarlet; Rainbow, light pink; Sirius, bright yellow, striped and speckled crimson; W. E. Dickson, crimson; W. F. Balding, yellow, shaded salmon. There is no cessation in the raising of new varieties. The total number of certificates awarded to novelties last year was 32, as compared with 21 in 1904, the cactus varieties preponderating.

THE NEW GARDEN OF THE R. H. S.

During the two years the Royal Horticultural Society have been in possession of their new garden at Wisley, satisfactory progress has been made in getting the place into a thorough working order. About seven acres of the most attractive deciduous flowering and foliage trees have been planted. Five acres are devoted to fruit trees, 3000 trees having been planted. The aim is to secure a selection of the best varieties. Four acres are allotted to vegetables, and in the floral section over a thousand roses (teas and hybrid teas) have been planted. The soil is too sandy for hybrid perpetuals. Glass houses have been erected, including three vineries for early, midseason, and late grapes. In one house, 100 x 30, is the famous collection of figs, containing over 80 varieties, all grown in pots. Visitors to the Society's garden are amazed at the quantity of fruit obtained from the trees in small pots, but this is due to the system of feeding adopted, both natural and artificial manure being applied. There is also a range for peaches. There are ten students at present in training, but it is hoped to increase this number to forty as the gardens get more developed.

THE SOCIETY'S TRIALS

The trials which were an important feature of the Society's work at Cheswick, will be continued, with the advantage of a larger area, and an atmosphere untainted by the terrible London fogs which played sad havoc at the former headquarters. Last season there was a large trial of cactus dahlias, to ascertain the best varieties for decorative purposes in the garden. Violas, new and old, were also taken in hand, a considerable portion of them obtaining awards. Border carnations were also tried, but were not a success, owing to heat and drought, but it has been arranged to have another trial this year. Over 180 varieties of potatoes were tested, and about a dozen were commended by the fruit and veg-

etable cutters. Ninety-seven varieties of broccoli were sent in, but this trial will not be complete until May. Seventy varieties of tomatoes were included, but only about six were found first-class. Peas to the number of 149 were tested, and some of these were found to be old friends with a new name. This year there is to be an important trial of tulips, embracing all sections from the earliest to the late flowering. Several of the leading continental raisers will assist the committee, more particularly as regards the nomenclature. Trials are also being arranged for narcissi, asters, cannas, strawberries and cucumbers.

A NEW HORTICULTURAL SOCIETY

Of the making of new horticultural societies there appears to be no end. This month a proposal will be considered for forming a winter-flowering carnation society amongst the growers of this increasingly-popular section. Another new organization has lately been launched under the title of the Horticultural Education Association. Mr. A. E. Brooke, an inspector, and Mr. Walter P. Wright, horticultural superintendent for Kent and editor of "The Gardener," will act as hon. secretary and treasurer. The association will comprise the horticultural instructors now engaged under the various county councils, and it is intended to hold periodical meetings at which papers will be read and discussions conducted on the various phases of gardening instruction. More attention is now being paid in this country to the teaching of rural subjects. The Government grant allotted for technical education has enabled some useful work to be done in this direction. Hitherto there has been no organization to keep the various instructors in touch, and the supplying of this omission is likely to prove beneficial to all concerned.

W. H. Adsett.

London, Eng., Feb. 1, '06.

Primula Stellata.

The star primrose, *Primula stellata*, which is the subject of our frontispiece, was sent to America ten or twelve years ago by Messrs. Sutton of Reading, England. When first introduced it was rather disappointing especially in the color of its flowers. However, since then great improvements have been produced. With good cultivation and selection we have now good-sized flowers and more pleasing shades of color. The white variety of this primrose when well grown, in my estimation, is the best of all the primroses for a cool greenhouse. *Primula stellata* is closely related to the Chinese primrose but it is so far ahead of that primrose in habit and gracefulness that it is hardly fair to compare them together. The star primrose has got rid of the thick-set ungraceful leaves and flower clusters of the Chinese type and has attained long graceful sprays of flowers which are produced in whorls.

The flowers are produced very abundantly, are exceptionally light and graceful and a vigorous plant will bloom from September to April.

The cultivation is the same as is given to the Chinese

primrose. It is easily raised from seed which should be sown in March. By sowing the seeds early nice little plants are obtained before the hot weather sets in and, if kept shifted along, by the end of September they ought to be in six-inch pots and beginning to produce their flower clusters. For a cool conservatory or cool window in the house there are few plants with the exception of *Primula obconica* that will last so long in bloom or give such pleasing effects as this primrose will.

All green house primroses should be grown as cool as possible. In fact all the species that are grown under glass should not have a higher temperature than 45 degrees Fahr., and often we let the temperature go down as low as 40 degrees.

The color of the flowers is very much improved by growing them in a low temperature. Many of the complaints we hear from florists and others of the flowers of primroses being so fugacious are caused, no doubt, from growing the plants in too much heat.

Do not discard the plants of *Primula stellata* as you do the Chinese varieties, as this primrose can be grown a second and third year and make much finer and larger plants than they did the first year. After the plants are through blooming in April cut off the old flower stems and set the plants out in a well-shaded cold frame where they may rest until the end of June when they may be turned out of their pots, the old soil carefully reduced with a sharp pointed stick and then placed in smaller pots. When the pots are full of roots they can be shifted along just in the same way as growing young plants.

Good rough loam with plenty of leaf mould and sheep manure is the compost we use for primroses. When the plants are well established in their pots an occasional application of liquid manure is very beneficial to them.

Robert Cameron

Boronias

These Australian heath-like plants are entitled to be classified with the most elegant flowering plants extant; some of them possess the additional charm of fragrance from their flowers, others from their leaves. Among the latter *B. elatior* is one of the most prominent; the former includes *B. megastigma*, which ranks near the head of deliciously fragrant flowering plants. For chaste floral elegance as a flowering plant *B. heterophylla* has but few successful rivals.

Considering then the above commendable properties possessed by these plants, it is no small wonder that they are so uncommon. They inherit better staying qualities than the general run of heaths, and are less liable to run to glory—or somewhere else—as heaths do at times under the ordinary treatment bestowed on plants as a whole; nevertheless, in order to succeed well with them a little attention on the part of the cultivator will not be amiss.

While fibrous peat as a major part of the potting material is undoubtedly preferable for the more deli-

cate kinds, it is not absolutely necessary as an ingredient to fulfil all requirements. *B. elatior* is one of the most robust and rapid growers of the genus, and most any good soil will suit it, with the requisite porosity of leaf-mould and clean sharp sand. This variety is later in flowering than the other two mentioned above; its season of flowering commences in April, according to the temperature wintered in, and it is good in flower for two or three months at a stretch, a characteristic rarely possessed by other family members, which adds proportionately to its other good traits. The flowers are not large but numerous, rosy-red in color.

B. megastigma is a slender, twiggy plant and might be termed an oddity from a flowering standpoint, the latter possessing no attractive brilliancy, the chief charm being confined to the subtle delightful fragrance exhaled from the flowers. The flowers are broadly campanulate, dark brown without and somewhat yellowish within. One plant of this variety would scent a whole ordinary-sized greenhouse. It is an early winter-flowering kind.

B. heterophylla is unquestionably the jewel of the genus from a floral and decorative aspect; it is also slender and twiggy in habit, the flowers arising from the axilla of the slender, narrow leaves, as in the other varieties mentioned, in great abundance, of a brilliant, rosy-carmine hue, small, inflated at the calyx end of the flower, tapering to a sharp point at the opposite end which seldom ever expands, one of the peculiarities of this variety and one in my opinion that adds greatly to its beauty, this flower appearing like so many uniformly moulded beads stuck on the plant by an artistic hand. This variety is a mid-winter flowering subject, given its proper winter quarters and its own inclination; otherwise of course it can be manipulated to change those inclinations as the cultivator desires.

Speaking of proper quarters, I may add that a cool, airy house suits them best, where a minimum temperature of 40 degrees, and a maximum temperature of 45 at night in winter is maintained.

February and early March is a favorable season for the propagation of boronias as they require considerable time to take root. It is very essential, therefore, that they be well on towards the cullisney stage ere the strong and hot sun of advanced spring be with us; failure, in the latter case, will surely reward our belated efforts. Cuttings should be taken from the tips of the branchlets of a semi-woody texture, and inserted in the usual way in pans or pots of prepared soil, which ought to consist of sand chiefly, with a lesser amount of finely sifted peat or leafmould added. Bell glasses, or similar contrivances, are an acquisition to the successful rooting of hardwooded plants; but I have found it unnecessary with two of the subjects of this note, *B. elatior* and *B. heterophylla* rooting freely in an ordinary bench but with much the same care bestowed on other miscellaneous subjects common to a private establishment.

To procure shapely, bushy plants frequent pinchings have to be resorted to in their infancy, and an annual shearing over after flowering when they have attained manhood stages, at which period greater vigor and progress are made by annual planting out in mellow enriched soil.

H. Finlayson

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED

INTERESTS

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WM. J. STEWART, Editor and Manager.

Nicotiana Sanderae
in winter

A correspondent of the Gardeners' Chronicle, writing from Canada, recommends *Nicotiana Sanderae* as a pot plant for conservatory decoration. He might safely go further and approve it as a window plant for the ordinary dwelling house. We have in mind a specimen which was dug from the border last fall, potted and taken into the house, having at that time shown no evidence of blooming, which is at present writing a bright attraction in the window, with every promise of so continuing until the end of the season.

Two varieties
of hybridizers

Another rhapsodist—a professor this time—lecturing in New York, breaks out in swelling laudation of the plant “creators.” What with the “professors” and rudimentary biologists and the “wizards” who change species by tramping on them or some similar process—as witness the man in Michigan who metamorphosed a celery plant—the plain everyday hybridizer who really does things, doesn't count. Perhaps it is as well that the shouters should occupy the front of the stage, for the public has no particular interest in the slow, painstaking work by which our hybridizers are accomplishing real advancement.

The rose show
will be a notable event

The approaching exhibition of roses at Boston furnishes a favorable opportunity to impress upon our readers the great advantages to be gained by a visit under such circumstances to such a centre of advanced horticulture as Boston is recognized to be. Frequent trips to see the products of brother cultivators, to observe the methods, study the management, and learn the ways of those engaged in a calling similar to our own furnish a stimulant as well as a relaxation and the additional advantages of meeting face to face and conversing on topics of vital importance to our prosperity, with men of eminent attainments, something the value of which cannot be overestimated. In all these respects the coming affair at Boston is a distinct pre-eminence.

It will be an occasion that no enterprising and ambitious man can afford to miss. In many ways it will be the opportunity of a life time.

The return
to nature

Are our so-called varietal improvements really improvements? After having worked zealously along one line until we have reached the limit of development in that direction how often it turns out that we are forced to confess an unalloyed beauty in the despised original from which we made our start in “improving.” The graceful subject of our frontispiece in this issue, reputed to be the ancestor of our richly developed Chinese primroses is a case in point. Turning away from the pampered pets of our highly developed strains who can help but fall in love with its natural simplicity of outline and poise? After a surfeit of the Timothy Eatons and Col. Appletons, chrysanthemums of the single types come as a refreshing change and the once spurned single roses and single dahlias are given a place of honor in our gardens and our exhibitions.

Forcing
the lilac

The article on lilac forcing, contributed by a French grower, which appears in this issue, should be of great interest to American forcers, many of whom have had but indifferent success in forcing good flowers on this popular favorite. An intimation of the remarkable future in store for this branch of floricultural industry in this country is given in the extent to which it is carried on abroad, there being individual forcers who handle for the Paris market from fifty to one hundred and twenty-five thousand plants each of *De Marley* alone. The flowers are very popular in Paris; pot-grown plants are used much less extensively. Even Charles X. and Marie Legraye are forced more from field-grown stock than from pot-grown. Properly grown the flowers are excellent keepers and it only remains for our growers to put them on the market in such shape and quantity as to make them a staple the season through.

Vicissitudes
of the novelty list

From the earliest horticultural literature down to the present time the ceaseless quest for new things has been going on and novelty has not infrequently superseded sterling merit. Generations back we find recorded the same spirit of jubilation over the marvelous improvements in varieties of the period which is so familiar to us of the present day. What matters it that of all the bepraised introductions of by-gone days scarcely one out of a whole year's novelty list is extant? What matters it that of the vaunted triumphs of today the great majority are doomed to disappear from the lists long before some of the readers of these lines have passed on? Other favorites will fill their place only to be superseded also in due time. This phase of the horticulturist's existence will always be, as it has been, the zest, the heart and soul of his art, and all the rules and by-laws that any society may enact to protect the profession against itself will go for naught against the universal propensity to experiment and take a chance. Let us not lose sight of the fact that a large proportion of the permanently good things in our standard list got there regardless of certificates, that some of the discarded things have met their fate in spite of certificates and medals and that, in all probability, history will continue to repeat itself.

WHOLESOME CHESTNUTS.

Begin to save manure for hot beds, if you have not greenhouses enough. Leaves mixed with the manure do pretty well.

Start in time with preventives for mildew. Sulphur is about the best thing to use; either dust it over the damp pipes or paint the pipes with it.

Many kinds of seeds ought to be sown now; among them, lobelia, salvia, dianthus in variety, including Marguerite carnations, alyssum and verberna.

Do not for a moment let up on cuttings. Take them off as fast as they appear fit and put them in. There is no time like the present. This is especially applicable to the propagation of nearly all kinds of bedding plants.

Finish tying peaches and nectarines if the mild weather started them. Be careful to put on all the air possible in the day time, but take no chances nights; you may even have to give them a little heat earlier than you thought you would.

If hollyhocks have been in flats the greater part of the winter they must be growing into one another now; if so lift every other one out by way of thinning, put them either in flats or put them in small pots, or still better a little later on plant them in cold frames.

As the season advances growth advances with it indoors as well as out. Repotting will be in order. Use good material; avoid anything that is likely to sour; use clean pots, clean outside and inside; clean crocks, you can keep the crocks sweet and clean, too, if over them you put either a little sphagnum or a piece of tough sod.

If gardenias intended for summer flowering have not yet been planted do not delay any longer. In removing the old gardenia plants, if some of them are extra fine—of the pity-to-throw-away kind—put a few of them in large pots. No doubt you will get quite a few flowers from them, and sometimes nice plants in flower are used, plants, flower and all, for decorations.

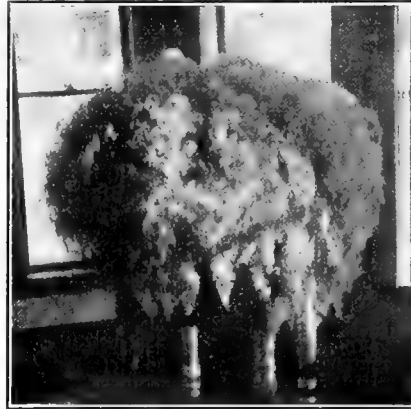
Start grape vines cool at first in order not to unduly excite the vines. After they are started syringe the vines several times a day and keep the house moderately moist, but be careful not to overwater at the roots; they do not require a great deal of water until they are about breaking. However, when water is applied to grape vine roots it should be thorough, so much so that every root gets an equal share of water.

If benches are to be replanted with American Beauty roses for midsummer flowering begin to get things in order for them. The first consideration is to get good, clean, healthy stock in at least 3 1/2 inch pots. Even if good stock costs a trifle more don't hesitate but get the best. When the time for flowers comes around it will be but small consolation to know you saved a cent or two on each plant if no flowers of any consequence are forthcoming.

With the next issue of HORTICULTURE we shall present our subscribers with another in the series of beautiful colored plates, the subject being the sweet pea novelty of 1906 Henry Eckford.

ADIANTUM CUNEATUM.

Adiantum cuneatum is not generally regarded as a good subject for living-room culture. The specimen illustrated herewith has been in possession of a lady for ten years during which time it has been constantly in the dwelling house. It measures over 15 ft. in cir-



cumference and 37 inches in height. The health of the plant is evident in the picture. An example like this demonstrates the possibilities with this fern and justifies the florist in recommending it as a good subject for dwelling house culture when properly cared for.

MARECHAL NIEL.

Mr. Editor:

Could you spare space enough in your valued HORTICULTURE to get, or ask the opinion of its readers, as to the proper treatment to be given a four-year-old Marechal Niel rose bush; as to whether it should be dried off or slightly chilled, and about how to prune it to get it to flower properly.

This information would be of considerable value to me and will be thankfully appreciated.

Respectfully,

F. B.

If the Marechal Niel rose has made good growth, water should be gradually withheld and plenty of air given so that it may get thoroughly ripened, as on this depends not only the amount of flowers but the quality also. All the pruning required will be to cut back the long growths to firm wood; then tie them in to the trellis, making sure to give them a good bend to induce them to break back, otherwise the flowers will all be at the tips. The starting up does not differ materially from that given to a Hamburg grapevine, except that the temperature should be a little lower.

ALEX. MONTGOMERY.

PUBLICATIONS RECEIVED.

A Manual of the Phlox. By C. S. Harrison, York, Neb. Full of the enthusiasm the author puts into all his work and well worth the price, 25 cents.

Leaflet No. 8 of the American Civic Association, Department of Nuisances, tells about mosquitos and how to abate them. Frederick Law Olmsted, Jr., and Henry Clay Weeks are the authors. The mosquito problem once solved, country life will become a paradise.

OBITUARY.

John E. Barry.

On the 10th day of February, at the home of his sister, Mrs. Patrick Donovan, in Roxbury, Mass., occurred the death of Mr. John Barry, for twenty years an employe of Mr. W. E. Doyle. Mr. Barry was born in Boston 32 years ago, and was the son of the late Edward Barry and his wife, nee Mary Anna Joyce. He was educated in the public schools of his native city, and while at school gave promise of a bright and prosperous future. In both his private and business life afterwards John Barry redeemed the promise of his youth. He was a modest man, who incorporated his religious belief in his practical living. Bright of mind, artistic in trade, unflinching in industry, loyal and scrupulously honest toward his employer and just toward all men, Mr. Barry has made for himself a brilliant record, and created for those around him and for all who in any way felt the touch of his beautiful life a noble economic and Christian ideal.

Mr. Barry's death was caused by heart weakness, which came upon him swiftly and is a distinct and emphatic loss to the florist world, whose patrons, particularly amongst the highest grade of patronage, so deeply esteemed the aristocratic blending of fine and gentle courtesy found in young Mr. Barry. The obsequies were solemnized on Feb. 13th in St. Joseph's Church, Roxbury. At the solemn Mass of Requiem Rev. Father Fahey was celebrant; Rev. Father Sullivan was dean; Rev. Father Ring, sub-deacon, and Rev. Henry A. Barry, D. D., a relative of the deceased, was master of ceremonies. The unusually large and tearful assemblage of mourners from the various walks of life, particularly from the florist world, gave silent but certain evidence that a bright, beautiful and valuable life had been brought to a close, and that the ashes of a true son, of a devoted brother, of a faithful employe and of a staunch friend were being consigned to the grave. Eternal rest be his!

Charles R. Emslie.

Charles R. Emslie, brother of Alexander Emslie, died at his home in Berlin, Vt., of tuberculosis, on Monday, Feb. 6. Mr. Emslie was born in Aberdeen, Scotland, June 14, 1869, but has been in this country for ten years, six of which have been spent in the employ of his brother. He leaves a wife and child. He was a prominent member of the Burns Club and of Clan Gordon of Barre.

Benjamin P. Ware.

Benjamin P. Ware of Clifton, Mass., died at the Massachusetts Homoeopathic Hospital in Boston on Feb. 7, aged 83 years. He was an active participant in Massachusetts Horticultural Society politics for many years.

As we go to press we receive the news, without details, of the death of the mother of Robert Craig.

NEWS OF THE CLUBS AND SOCIETIES.

NEW YORK FLORISTS' CLUB.

The meeting of the New York Florists' Club on Monday evening, Feb. 12, was a tremendous one, the attendance reaching the unprecedented number of 110, the hall being packed almost to suffocation with the crowd and the extensive exhibits. C. W. Ward gave an eloquent talk on carnations with illustrations, and was followed by Robert Craig and F. R. Pierson, both of whom also talked entertainingly.

The outing committee reported that Wetzel's Grove had been chosen for the club picnic, which will come off on July 2. Messrs. Nugent, Kessler and Shaw were appointed a committee to present resolutions on the death of the father of the vice-president. W. F. Sheridan was appointed in place of John N. May resigned, on the legislative committee. A motion to inaugurate a system of cash prizes for exhibits at the meetings was laid on the table. Ten new members were elected and twelve more nominated.

The exhibition comprised some splendid groups of carnations from noted growers. The prizes for 25 blooms of four varieties were awarded as follows:

First, C. W. Ward; second, F. R. Pierson Company; third, Valley Farm Greenhouses. C. W. Ward's vase of Alma Ward was declared the best in the exhibition. For preliminary certificate this variety scored 94 points, and Elsa Struss was given 90 points.

Among the other exhibits staged were Winsome, Harry Fenn, Seedling 32, Variegated Lawson and Fiancee from John Reimels; Red Lawson, Winsor, and White Enchantress from F. R. Pierson Company; Enchantress, Lady Bountiful, Mrs. Patten, and Nelson Fisher from Velie Bros.; Abundance and freesias from R. Fischer; seedling from E. L. Enggren; Jessica and My Maryland from H. Weber & Sons; Victory from Guttman & Weber; Robert Craig and Enchantress from Cottage Gardens. Glendale from W. J. Vesey did not arrive in good condition.

NEW BEDFORD HORTICULTURAL SOCIETY.

At the monthly meeting of this society, held on Feb. 12, an address was given by Thomas White of Fairhaven upon the subject, "What is a bulb, a corm, a tuber, a rhizome?" The speaker deprecated the custom of calling all these things by the common name of bulbs; explained and illustrated the difference in their structure and habits of growth; also strongly recommended the application of the adage, "Why not call a spade a spade" in matters pertaining to horticulture as well as in things uncouth or questionable. An interesting discussion followed the address.

The entertainment committee reported that arrangements were being made for lectures upon the gypsy and brown tail moths, and upon bulb growing in Holland. The executive committee reported the presentation of several cups by interested friends of the society for competition at the annual fall show.

H. August Jahn showed a splendid vase of seedling pinks; the individual flowers were exceedingly fine and ranged in color from white to dark red.

THE S. A. F. PAEONY COMMITTEE.

The S. A. F. paeony committee files the following list of varieties under trial under the auspices of the Department of Agriculture at Washington. Peter Bisset, who is the active local member of the committee at Washington, also has installed a collection at Twin Oaks and is making annual records therefrom. The following list of the Department of Agriculture set contains 76 varieties and more are to be added:

Maria Kelway	Whitley plena
Agnes Mary Kelway	Prince Prosper
Lady Curzon	Lady Carrington
Princess Beatrice	Sir T. J. Lipton
Mrs. Chamberlain	Princess May
Mountbank	Queen Victoria
Festiva Maxima	Miss Salway
Princess Irene	Bunch of Perfume
Duke of Clarence	Milais
Lady Beresford	Tinted Venus
Limosel	Miss Brice
Paderewski	Nominate
Mad. Calot	Calliphon
Torquemada	Duke of Devonshire
Glory of Somerset	Baroness Schroeder
Prince of Wales	The Bride
Leonard Kelway	Ella Christine Kelway
Dorothy Welsh	Cyclops
Alonzo	Sainfoin
Grizzell Muir	Venus
Solfaterra	Duchess of Sutherland
Lottie Collins	Mr. Manning
Kelway's Queen	Queen of the May
Helena	Lady Cecilia Rose
Joan Seaton	Viscount Cross
Princess Christian	Lyde
Princess of Wales	Water Lily
Lady Gwendolen Cecil	Princess Dhuleep Sing
Mrs. Asquith	Cendrillon
Stanley	Alton Locke
Prince George	Argus
Cognita	Hesperus
Duchess of Teck	Amiable
Autumnus	Lady Bramwell
Humei White	Cavalleria Rusticana
Summer Day	Emily
Moonbeam	Clothes
Reine des Francaises	Opiter

MASSACHUSETTS HORTICULTURAL SOCIETY.

The program of exhibitions during the season of 1906 is as follows:

March 23-25—Annual spring show in connection with the American Rose Society's exhibition.

May 5—Plants, flowers and vegetables.

June 2—Rhododendron exhibition. Shrubs, hardy herbaceous flowers, orchids, vegetables.

June—A Paeony exhibition and a Rose and Strawberry exhibition, dates to be announced.

July 7—Flowers, fruits and vegetables.

July 21—Sweet peas, aquatics, fruits, vegetables.

August 4—Phloxes, annuals, fruits and vegetables.

August 18—Gladioli, China asters, fruits and vegetables.

September 5-6—Annual exhibition of plants and flowers.

October 10-11—Annual exhibition of fruits and vegetables.

Nov. 2-4—Chrysanthemum show.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY.

At the last meeting of the society, on Tuesday, Feb. 6, an interesting paper on "Rose Culture" was read by James MacGregor, grower to F. S. Platt Co.

PITTSBURG AND ALLEGHANY FLORISTS' AND GARDENERS' CLUB.

At the meeting of the club Tuesday evening, Feb. 6, officers were elected as follows: Jno. W. Jones, president; E. C. Reineman, vice-president; F. Burki, treasurer; H. P. Joslin, secretary; E. C. Ludwig, assistant secretary; P. S. Randolph, Jno. Bader, F. Burki, executive committee, being with the exception of the president the same officers who have conducted the affairs of the club for several years. Mr. Jones has been for many years the foreman of the Schenly Park greenhouses, and in this capacity has been widely and favorably known among florists and gardeners, and the people of Pittsburgh who visit the Schenly Park greenhouses owe much to him. He will make a good practical president. While heartily welcoming the new president the club remembers with deep gratitude the services of the retiring president, Mr. Langhans, whose work for the welfare of the club has been faithful and unremitting.

The secretary's report showed a membership of 153, with 26 accessions for the year 1905, and a larger balance in bank than ever before.

It being Carnation Night there were good exhibits from home and distant growers. One member who attended the recent Carnation Convention in Boston and visited many of the growers in the vicinity stated as a curious fact that, in Massachusetts, the home of the famous Lawson carnation, it is not now grown as well as our Pittsburg growers are doing it. Better Lawson carnations now come into the Pittsburg market than into Boston. On the other hand, Lady Bountiful, while it does very well with us, seems to be in perfection with the Boston growers.

The Jno. E. Haines carnation was shown in good form, making its third season before the club. A committee appointed to pass upon it, consisting of Messrs. F. Burki, P. S. Randolph and C. S. Crall, voiced the prevalent sentiment when they reported it as the finest flower of its color, considering finish, stem and commercial effect, that has been exhibited at our meetings.

Victory was shown in good form and style, and the comment was exceedingly favorable. W. J. & M. S. Vesey showed through J. B. Murdoch & Co. Glendale in fine form. This drew the most favorable comment of any variegated carnation shown, but carnations of the variegated type have never been good sellers in Pittsburg.

J. L. Wyland, De Haven, Pa., showed Fiancee a good flower and pleasing color, but bursts too much; Eclipse, early, free, and a good stem; also Fred Burki, Lady Bountiful, Enchantress and Lawson.

The Pittsburg Rose and Carnation Co. showed among others Flamingo, which does well with them, also Estelle, Fred Burki and Lady Bountiful, and some good seedlings.

The Blind Bros. showed Lawson. The Pittsburg Florist Exchange staged white and pink Lawson, Mrs. Patten, Nilson, Enchantress and Pros-

perity. S. J. Hatch showed a vase of Lawson, Enchantress and Lady Bountiful and fine primulas in pots.

It was voted the meeting of the club in March should be a Rose Night.

H. P. JOSLIN.

CINCINNATI FLORISTS' SOCIETY.

If it had not been for the out-of-town growers the exhibition given by the Cincinnati Florists' Society Feb. 10 would have been a failure. Roses are off crop here and a week of zero weather made matters worse. The stock exhibited was good, but we have had better shows both in quantity and quality of flowers. However, the variety displayed made up for the deficiency. The show was well advertised by the daily press, but the inclemency of the weather prevented a large public attendance. Judges Schwarz and Critchell made the following awards:

American Beauty, 1st, Peter Reinberg; 2nd, Weiland & Olinger. Bride, 1st, Gus Meiers; 2nd, Weiland & Olinger; 3rd, Peter Reinberg. Bridesmaid, same as Bride. Ivory and Meteor, 1st, Peter Reinberg. Best vase of roses any other variety, 1st, Peter Reinberg; 2nd, Weiland & Olinger (both with Chatenay). Miss Kate Moulton is the name given to a new seedling rose exhibited by the Minneapolis Floral Co. It scored 90 points. The rose is on the order of the Chatenay and is borne on a good stiff stem. It was by far the most beautiful vase of roses in the building. Witterstaetter had a vase of his new carnation, The Aristocrat, which was greatly admired. This flower has had considerable free advertising in the local papers and therefore proved to be a good drawing card. The next exhibit will be the carnation show, which will take place on Saturday, March 10.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

A. C. Zvolanek, Bound Brook, N. J., submits for registration the following named new Christmas blooming sweet peas:

Mrs. Alex. Wallace, seedling from Florence Denzer x Lady Hamilton; lavender.

J. K. Allen, spotted pink on white ground.

Christmas Enchantress, soft pink.

Jack Hunter, yellow, black seeded.

Mrs. C. Wild, Zvolanek's Christmas x Salopian; carmine.

Christmas Meteor, scarlet.

W. J. STEWART, Secretary.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next meeting of the club will be held at Horticultural Hall, Boston, on Tuesday evening, Feb. 20, at 8 o'clock. The lecturer of the evening will be Robert Cameron of the Harvard Botanic Gardens, on his recent tour through the West Indies. Some very choice and interesting exhibits are promised, which alone will be worth coming to see. Applications for membership are still coming in, and it looks like 300 members before May 1. There will be music, refreshments and other attractions as usual.

FLORISTS' CLUB OF WASHINGTON.

The Florists' Club of Washington held its regular monthly meeting on February 6. It was decided, after discussion, that the first Tuesday in March, the occasion for the regular annual election of club officers, the organization shall tender a banquet to the incoming officials. The banquet will be held at Freund's. The arrangements were left in the hands of a committee appointed for the purpose.

The feature of the meeting, aside from the exhibition of carnations, was a lecture by Mr. Elmer C. Wood of the Department of Agriculture on the carnation and the diseases to which it is subject. Mr. Wood illustrated his descriptive address with stereopticon slides, showing the manner in which the wet and dry rot can be prevented, detected and cured.

James T. Scott, of the F. R. Pierston Co., made a brief but highly appreciated speech, discussing the certification of meritorious varieties of the carnation and the unscrupulous methods of some dealers in trying to put out unworthy sorts.

In the report of the committee on awards, Imperial scored 74 points, Pink Imperial 85 points, John E. Haines 85 points, Robert Craig 86 points and Glendale 80 points. My Maryland, Jessica, Beacon, Evangeline, Helen Gould, White Enchantress and Winsor if shown as well at two more meetings of this club will be each entitled to a certificate. Certificates were awarded to S. C. Briggs for superior culture of rose Killarney and carnation Enchantress, Ley & Bickings for exhibit of carnations and Mrs. G. G. Hubbard for superior culture of rose Killarney. Mikado, Pink Patten and Abundance carnations were also on exhibition.

ST. LOUIS FLORISTS' CLUB.

The St. Louis Florists Club's carnation meeting was held Thursday, Feb. 8, with a good attendance. The exhibits which took prizes were as follows: Twenty-five red, 1st, W. J. & M. S. Vesey, Red Sport of Glendale; 2d, Theo. Klockenkemper, Flamingo. Twenty-five white, 1st, H. Weber & Sons Co., My Maryland; 2d, W. J. & M. S. Vesey, Lady Bountiful. Twenty-five light pink, 1st, Wm. Winter, Enchantress; 2d, D. C. Noble, Light Pink Lawson. Twenty-five dark pink, 1st, W. J. & M. S. Vesey, Lawson; 2d, J. F. Ammann, Lawson. Twenty-five variegated, 1st, Wm. Winter, Patten; 2d, H. Weber & Sons Co., Jessica.

The Indianapolis Floral Co. exhibited a nice vase of Candace; John Steidle a sport of Enchantress, the color darker than Enchantress; the Minneapolis Floral Co. a vase of the new rose Miss Kate Moulton, which was awarded certificate of merit; W. J. & M. S. Vesey sent a vase of sweet peas, which received honorable mention.

The judges were E. W. Guy, Max Herzog, F. H. Ude, Jr.

It was decided to make the next club meeting, March 8, a rose meeting, the club to offer five dollars for 1st and three dollars for 2d best 25 white, 25 pink, 25 red and 25 any other color. The trustees will take charge of all flowers sent, the same as for the carnation meeting.

SOCIETY OF FRENCH GARDENERS IN LONDON.

At the annual dinner of this society which was held at the Cafe Royal, London, on January 6th, there was quite a group of international horticulturists both amateur and professional—English, French, Belgian, Japanese, and we know not how many more besides. America was represented for the first time, Mr. William Duckham of Madison, N. J., being among the guests.

The toasts were: The President of the French Republic, the King, La Societe Francaise d'Horticulture de Londres, Our English Friends and Supporters, the Bureau of the Society and the English Horticultural Press. The chair was taken by Mr. John Harrison of Leicester, and the speakers were Mr. George Schneider, Mr. Harman Payne, Mr. Thomas Bevan, Mr. Verboonen, Mr. B. Wynne.

This was the 17th anniversary. The proceedings were partly in French and partly in English, it being a not uncommon thing for some of the Frenchmen to speak English and some of the English speakers to do their part in French at these very interesting gatherings.

PASADENA GARDENERS' ASSOCIATION.

At the meeting on February 2, plans were completed for a three days' flower show on April 5, 6 and 7. Messrs. Hanson, Blake and Thompson afterward waited on the Board of Trade and secured their hearty endorsement and promise of assistance. It is planned to hold the show in the Y. M. C. A. auditorium. At this season the flowers will be at their best, and it is anticipated that such an exhibition will be a strong force in promoting an interest in horticulture throughout Southern California.

STATE FLORISTS' ASSOCIATION OF INDIANA.

The regular meeting was held on Feb. 6 at the State House at Indianapolis. The chief business of the evening was in regard to holding a spring show, and after some discussion Messrs. A. F. J. Baur, H. W. Rieman and George Wiegand were appointed a committee to arrange for a show in April. J. E. A. Haugh of Anderson was present and addressed the meeting.

CLEVELAND FLORISTS' CLUB.

The last regular meeting was held on Monday evening, February 12. A general discussion was held regarding a carnation show and it was finally decided to hold one on February 26 at 8 P. M.

CLUB AND SOCIETY NOTES.

The twelfth annual ball of the Lenox Horticultural Society was given on the evening of February 6, in the Town Hall, which was handsomely decorated with palms, potted plants and greens for the occasion.

The Kentucky Society of Florists held its regular meeting at Joseph Wettle's home Tuesday night. It was decided that on Wednesday, Feb. 21, they hold an exhibition of carnations and roses. Anyone having anything of interest to exhibit should send same to Secretary Fred L. Schulz. This year the public will be given an opportunity to see the show.

IMPRESSIONS OF THE BOSTON MEETING OF THE AMERICAN CARNATION SOCIETY.

(Paper by Albert M. Herr Before the Florists' Club of Philadelphia, February 6th, 1906.)

When the meeting of the American Carnation Society is mentioned the first thought and the first question is "how was the exhibition?" In view of this fact the exhibition will receive our first consideration.

The entries for this exhibition eclipsed all previous efforts in the exhibition line and had not Dame Nature freaked off into a week of May weather, just preceding the meeting, there would have been half again as many carnations staged in Boston as ever were previously staged at one time or place in the world.

Accustomed as this society is to a blizzard as part of its programme for the week, it seemed doubly unusual to see exhibitors throw flowers aside because they had heated in transit, and to hear others say "we did not care to risk our flowers for travelling in such soft weather," yet such were the facts in the case and fully 20,000 flowers were not staged that would have been under more favorable conditions.

In spite of all these drawbacks the show in a small measure eclipsed in quantity all previous shows, but the continued warm weather of January brought the quality of the blooms below their normal average for this season of the year, and with the exception of the improvement in the newer varieties over the older sorts, the standard of the flowers shown was not as high as in some former shows. Had not the hall been almost ideal for the keeping of carnations this would have been more noticeable, but even with these soft flowers the exhibition was better the second day than any exhibition this society has ever held and the sleepy, sick-looking vases usually in evidence the second day were conspicuous by their absence.

In the contest for certificate of merit, only two scored up to the point of award; these were F. R. Pierson Company's Winsor and John Reimels' Winsome, both of them a beautiful pink color, a color we stand very much in need of, as we are running low on profitable varieties in this shade. It is to be hoped they show up as well on the benches of the men who buy them as they did on the exhibition tables. Those varieties that did not score high enough for a certificate are not of necessity inferior sorts, as here again the weather was to blame and many of those entered were too soft to be done full justice by the judges, who had to judge from what they had before them.

In the Lawson Medal class the gold medal went to C. W. Ward with the variety Elsa Struss, another one of the pink shades we are looking for. The color of this variety scored high by daylight and would have scored higher under the electric light as it certainly did light up handsomely. The silver medal went to Pierson's Winsor, another feather in its cap. The bronze medal to C. W. Ward's Robert Craig; this one will soon need another cap to hold all of its feathers.

To mention all of the new named and numbered sorts, that were up for exhibition only, would simply mean

confusion, but several of them were so striking as to demand recognition in a paper of this sort, the first of these being Rob Roy, exhibited by the Dailedouze Bros.; it is a phenomenally large white, that is destined to make a sensation if ever it is put on the market. Another one in this class was a bright yellow so distinct as to be the first variety to catch your eye in looking over the hall; its fine color and fine stem will no doubt make it some day a standard yellow.

Still another was Peter Fisher's Evangeline, in color a rather dull salmon, but fine in form, substance and stem. A Boston retailer whispered in confidence that the color was just what the people want; under electric light it is a handsome thing, but in daylight I would not be one of the people. His Beacon looks like a winner in the scarlet class, and if any or all of the three scarlets now being introduced fall into the same grave as Fiancee we will have this one for future trial. Patten & Company's Mikado is a fancy flower for a fancy trade and one well worth a trial.

S. J. Goddard's Helen Goddard jumped into favor at once with the most of us as a successor to William Scott and Joost. There were a host of other good ones on exhibition, but all of this has been chronicled in the trade papers, and it would simply make you tired to hear them all over again.

In the standard sorts among the whites Lady Bountiful led all of the others and it well merits this lead. Enchantress was almost one-third of the show; in fact, for the sake of the general effect of the exhibition there were too many of the lighter colors. Lawson was not so much in evidence as in former years and the best one hundred blooms in this class was awarded to Peter Fisher with the variety Nelson Fisher.

In the Scott shade of pink class there was practically nothing doing, and Fiancee, the queen of our last year's exhibition, was conspicuous by its absence, and we will have to look to the present season's introductions to fill the gap in this class. The same is true of scarlets, there being nothing striking to show excepting this season's introductions and apparently they are all good. In crimsons, Ward and Dailedouze can grow the President and Crimson Glow and make money from them in the New York market; other cities draw the line at Harry Fenn and do not want too many of them. Yellow variegated has found no successor to Buttercup and Buttercup is too old to travel to the exhibition if it is not defunct entirely. Eldorado was the only variety in this class. In white variegated M. A. Patten and Variegated Lawson had the field to themselves. Lawson cranks claim there is nothing like the Lawson and they are not far wrong, no matter whether it is a white, variegated, light pink, dark pink or any other color. In this latter class Prosperity and Mikado had the field to themselves.

The arrangements for staging the flowers quickly and without confusion were well made and the coffee and sandwich feature in the hall as a preliminary to Boston hospitality was certainly appreciated by these hard

workers, who had until 1 p. m. to stage their flowers. The rearrangement for effect after they had all been staged in class made things very confusing for the judges and delayed the work fully half an hour. Six judges worked on this exhibition for almost three hours and they did not waste any time.

As to the business meetings they are worth more consideration than most of the members give them. There were several innovations made that will no doubt be record markers for Boston. The principal one of these is the fact that in the future certificates of merit will be given only after a variety has scored up to the proper figure on the exhibition table and again scored by a committee of three under a scale of points yet to be adopted and adapted to the scoring of the variety in the greenhouses of the originator. It was also proposed that the growers of new varieties for introduction should keep a record of the number of blooms cut per square foot of the variety and the price it brings in their market and publish these records at intervals during the season. By this double method of checking up a new variety this society hopes to avoid the introduction of failures, as it deeply deplores the loss of time, money and space through the failure of so many of the newer introductions.

The papers read were all valuable in their respective lines, but the discussion on them was so meager that it came pretty near being nothing at all. The attendance at the opening meeting in the evening filled the large hall we had for a meeting room, the next day it dropped off about 90 per cent., the show holding about the half of these and the other half were sight-seeing either in the city or among the surrounding growers. This loss of attendance could be partially overcome if the growers were to arrange a program of visiting for the first day, returning the party about 4.30 p. m., the hall always being closed from 1.30 to about 4.30 for judging. Another program could be arranged for Friday, this visiting of the growers being a legitimate part of the session which should be arranged so as not to conflict with the business sessions.

One very vivid impression of this Boston meeting will be the nearness with which we came to losing the special railroad rate of a fare and one-third. Our attendance by rail at these meetings is so close to the hundred mark required that every one who attends should buy a ticket on the certificate plan; it is very little trouble and means the saving of a lot of money to some of us. Philadelphia and New York were the chief sinners at this meeting.

Another impression to the visitor was the lack of a registration book and a place for the proper receipt of mail and telegrams; this was no doubt simply an oversight of the local club and the President, through whom such affairs are arranged.

The banquet was a royal finish to a very profitable and enjoyable meeting, and the few disappointments always an incident of such meetings are soon forgotten in the memory of the host of pleasant ones, and we are now all looking forward to the next meeting in Toronto for 1907.

One word about this Toronto meeting. It ought to be a rousing meeting and a good exhibition. Toronto is easily reached from both the east and the west and our President-elect is the sort of a man who will leave nothing undone that will add to the pleasure and profit of the members attending this meeting. He has already secured the transportation of all cut flowers for the exhibition through the customs free of duty and without the delay usual in such cases. If there is no other reason for coming the mere fact that you will meet President-elect John H. Dunlop of Toronto, Ont., is an all sufficient one.

MIGNONETTE.

Abstract from a paper read before the Tarrytown Horticultural Society by Joseph Bradley.

The kind of house to grow mignonette in is in my opinion a house such as is commonly used to grow violets in, with the benches somewhat further from the glass. They should be from two to three feet according to the variety you intend to grow. The nearer to the glass the better, providing there is head room to keep it straight. The house should be so constructed that both side and top air can be given as it likes abundance of air.

Solid benches should be used where it is possible, as there is not so much danger of the bottom roots becoming dry, which is very injurious to mignonette. If solid benches are used the soil should be removed about ten inches deep and filled with three-quarter loam to one-quarter manure, with good sprinkling of air slaked lime. If shallow benches are used they should be six inches deep at the least and if boards are used at the bottom they should be far enough apart to allow good drainage.

Mignonette should be sown where it is expected to bloom without transplanting it. After lines have been drawn, say twelve inches apart crossways and ten inches lengthway, then place three of four seeds at each place where the lines cross each other. When the plants are one inch high they should be taken out leaving one in each place. After the plants have attained a height of four inches they should have the top pinched out to cause them to make side shoots. If you wish very large spikes then only four or five, but very nice spikes can be had if eight or nine shoots are left to grow.

It is very necessary to keep them tied in straight, and there are several ways of doing this. One is just to place a stake in the middle of the plant and run a string around. Some use carnation stakes, some also run wires lengthways of the bed and strings crossways the same as some carnation growers do, and I think this way the best; it keeps them upright without crowding.

If you wish to cut mignonette for the holidays the seed should be sown by the middle of August. All the air should be left on the house night and day until near frost. But after it is closed I like to have it from 47 to 50 degrees with as much air as it is possible to give at all times. I know that some growers advocate from 40 to 45 degrees but in my opinion this is too dead, especially so after the

month of January when we get more sun.

After the spikes have begun to form they should have liquid manure about once every ten days. I find horse manure suits it first-class. Also nitrate of soda about three barrels to fifty gallons of water. After the first crop has been cut, if proper attention is given to pinching and feeding, good cutting can be kept up until June. I think it a mistake to throw it out after the first crop has been cut; the spikes are not quite so large but you get a great deal more of them and they come much quicker. The best variety that I know of is Her Majesty. It is rather tall but it gives good satisfaction.

The greatest pest on mignonette is the common cabbage worm or the larvæ of the yellow butterfly and if this pest is not kept in check he will soon eat up all the plants. I find paris green very good in exterminating it, but it must be used not too strong or it will burn the plants. It ought to be mixed in water and put on with a fine spray, just enough paris green in the water to color it. Salt can also be used dissolved in water; while hellebore, slug shot, pyrethrum power, tobacco dust can also be used dusted on the plants. But the best way is to keep the butterfly out of the house by placing mosquito netting over the ventilators or by building a light frame work over the bed and covering it with netting. The earthworms also become troublesome in the solid benches if lime water is not used from time to time.

After the first crop has been cut and the plants are making new growth they will require abundance of water and a good top dressing of well rotted cow manure will help them a great deal, but the liquid manure should be used as before. The spikes will be greatly improved if cut twenty-four hours and placed in a cool house before using them.

CALIFORNIA NOTES.

French and Belgian growers should take more care in the packing of flowering stock imported by California nurserymen. If such stock as azaleas and rhododendrons were more generally of some value when opened here the importations by California nurserymen from European nurserymen would be considerably increased.

The president of the National Gardeners' Association, John M. Hunter of New York, is touring California with the object of finding a location for a national gardeners' home, which it is intended to establish in this state. On the 4th inst. he was shown the beauties of Golden Gate Park by Superintendent McLaren, and he pronounced it from an expert's point of view one of the most beautiful parks in the world and the most beautiful in America.

Warm, growing weather has followed all this passing week the incessant rainfall of the cold, preceding week, and crops and vegetation of all descriptions are materially improved. Almond buds have commenced to swell and willow and elderberry leaves are coming out. Orchards and vineyards are in good condition, and cultivation and pruning are progressing. The damage by frosts this season has been comparatively light and the outlook is good for large crops of deciduous

fruits and grapes. Citrus fruit trees have been greatly benefited by the recent warm weather.

Relatives and friends of Luther Burbank issued a circular this week calling attention to the annoyance to which he is subjected almost daily, and requesting the discontinuance of visits by the public; they also placed on each gate at his residence a notice declaring that anyone entering or trespassing on the grounds will be prosecuted. John M. Rutland of Melbourne, who is here visiting the trade, has secured this week the exclusive right to handle and distribute in Australia and the eastern portion of the world, including Africa, Luther Burbank's thornless cactus, new grape, and several species of new plums.

Fruit growers of California are feeling much better than they have. Rates on fruit shipments are to be lowered and rebates positively abolished. A prominent grower said: "Speed and direct carriage to the Eastern market are vital to the fruit industry of California." And W. E. Gerber, president of the Earl Fruit Company, said: "This decision of the transportation lines will be a great thing for the fruit industry of the state. It means a reduction of 15 per cent. in the cost of the refrigeration of fruits shipped to Eastern points, and to that extent will the fruit growers of the state receive the benefit. Judging by last year's shipments, which amounted to 7000 cars, the net gain to the fruit growers of the state by the reduction agreed upon will be fully \$100,000."

Warm and clear weather prevailed throughout the state most of the week, with considerable cloudiness at the close and light rain in the central and southern sections on the 4th and 5th inst. This warm weather is being very beneficial to grain, which is now in excellent condition and making rapid growth, with indications of a large crop in all sections. Plowing and seeding are in progress in many places and completed in others. The grain acreage in some districts will be larger than last season's, but in others, owing to absence of rains early in the season, it will be less. Grass and range feed made rapid growth during the week and pasturage is abundant in all sections. Stocks are in fair condition and steadily improving. Sugar beet planting is in progress in the San Joaquin valley and early potatoes are being planted in South California. Good progress has been made in pruning and cultivating orchards and vineyards, which are thrifty and advancing rapidly. Peach, almond and lequat trees are in bloom, citrus fruit trees are in good condition and rapidly putting out new growth, and orange picking and shipping continues.

GREENHOUSES BUILDING AND PROJECTED.

Holliston, Mass.—M. E. Cutler, one house.

Barnstable, Mass.—G. B. Lewis, one house.

S. Milford, Mass.—W. D. Howard, additions.

Hamden, Conn. W. J. Schoonman, one house.

Bedford, Mass.—William G. Keiser, one house, 17x86.

Newport, R. I.—Stewart Ritchie, addition house; Oscar Schultz, additions; William Jurgens, additions.

IMPRESSIONS OF CALIFORNIA AND ITS CLIMATE.

(Continued from page 143.)

Near Oceana, I saw carnations growing in a garden which were finer in plant and flower than any I have ever seen in a greenhouse; the plants being sturdy and symmetrical with beautiful foliage and stiff erect stems surmounted by the finest and most symmetrical flowers; no stakes or support was needed, and here should be the perfect field for the work of the hybridizer and seeker after new varieties.

At Pasadena, I saw on the lawns a number of beautiful specimens of *Phoenix reclinata*, ten to twenty feet in height and of most symmetrical form, but this was the only one of the finer palms that I saw used to any extent in California and it seems to me that our large palm growers should work up this field and encourage California planters to make use of the seaforthia, lantanas, kentias, etc., which have a more graceful appearance than the old fan palm with its spiky leaves and thread-like filaments.

In the vicinity of Santa Barbara are large lemon orchards nestling in the valleys between the hills wherever there is an opening with a supply of water for irrigation and just below Santa Barbara, there is a beautiful place on the sea shore called Mitainar, consisting of small cottages each surrounded with a fresh green lawn, also a country club with spacious grounds all with the greenery of our suburbs and a splendid view of the sea.

Just before reaching Los Angeles, the train passes through several miles of strawberry fields closely planted, with just room to walk between the rows and all under irrigation, but one has to look twice to recognize this well-known plant as each leaf looks as though it had just been washed, waxed and varnished. Looking along the rows every once in a while you see a plant with a large cluster of ripe berries, not a crop at all, but say one plant in twenty-five with ripe fruit, and affording a good picking from the large area, and as the winter season advances they become more plentiful. A little nearer Los Angeles, in fact just outside the city, there is a pigeon establishment with thirty thousand breeding birds, the whole arrangement consisting simply of orange boxes piled in tiers for nests and covered with wire netting supported by rough poles. In the Los Angeles markets I saw huge piles of the winter pineapple, musk mellons labeled "fine Casabas," which must have originated in the imagination of some grower who had never seen the true type of the fine old Casaba as nothing more could have been conjured in the garden.

The giant redwoods near Vera Cruz resemble an enormous growth of hemlock spruce many times magnified, and these trees increase in size as one ascends the mountains, culminating in a grove of fine trees averaging three hundred feet in height in a valley near the summit. This grove has been

enclosed for a park and will be preserved for future generations.

On many ranches there are groves of eucalyptus planted closely together twenty to twenty-five years ago and now seventy-five to a hundred feet in height with trunks as straight as an arrow, but so far no use has been found for this tree excepting for firewood and it is about as ornamental as the Carolina poplar.

Among the disappointments of the trip, was that I did not see any San Jose scale at San Jose, although I enquired for it repeatedly. No one seemed to be acquainted with this small pest which is raising so much commotion here, except by reputation.

Although my stay in California was limited to two weeks duration, every moment was crowded with interesting sights and experiences and I have only been able to give you a very meager account of the interesting things to be seen. To give a full account of what I saw in even such a short visit would require several evenings and would, I fear, tire your patience unless you, too, have been there and have a fellow feeling in the reminiscences. The country has a charm which lingers in your memory and makes you wish to go again, but if the choice is yours the trip should be made in the spring when everything is fresh and green and the flowers are in full bloom.

SAMUEL MURRAY.

We introduce to our readers, through the portrait which appears herewith, one of the best known and best liked of the fraternity of American florists, Samuel Murray of Kansas City, Mo. Mr. Murray is one of those all-round, indispensable men who can be relied upon to do his share and more when



artistic decorative work is called for, when cultural abilities are to be demonstrated in the exhibition hall, when the stranger within the gates is to be welcomed or any self-sacrificing duty for the benefit of the craft presents itself. Mr. Murray's busy little establishment, next to the Coates House, is the first objective point of every horticultural visitor to Kansas City.

FORCING LILAC DE MARLEY FOR CUT FLOWERS.

Translated from the French.

On arrival in the fall, after unpacking, place in a cool shed and pack plants close together without watering (that means, starve the plants a little). A spell of moderate freezing will improve the forcing chances. When wanted for forcing, remove to the greenhouse, where they are to be planted right close in the ground, but so that enough passageway be left to attend to them. Small houses of 150-200 each would be preferable when larger quantities are to be forced, so that new stock can be set in every week. The houses must be darkened, and the temperature may be run up at once to 86-95 deg. Fahrenheit. Water every day towards noon with cold water, and spray the branches freely; plants want air and light from time to time, best for an hour or two in the middle of the day. After 18-20 days, flowers should be ready to cut, which will be white when forced in the dark; the natural color of de Marley being a pale lilac. If the leafbuds are allowed to grow, it will interfere with the development of the flower buds; therefore always allow the latter the preference to develop first, and until they are fairly out remove the growing leafbuds.

If wanted in the natural tint, do not start forcing before January; earlier they will not take color. Force in well lighted and ventilated houses with 85-95 deg. Fahrenheit; they want much heat at the start, until the buds have pushed 3 to 4 inches long, then gradually lower the temperature; the lower the temperature and the more air and light you give the more pronounced will the color appear. This of course is a slower process. Field-grown plants of Charles X, and white Marie Legraye, are both treated successfully for the Paris market in the latter way, and will then show their natural colors to perfection.

PERSONAL.

A. Schultheis of College Point, has sufficiently recovered from his long and severe illness to go to Lakewood, where he will spend a few weeks in recuperating.

Philip Breitmeyer, manager of J. Breitmeyer's Sons, Detroit, Mich., has been appointed second vice-president of the German-American bank of that city. With its notable prominence the bank could have chosen no man more worthy of the position.

C. A. Dards of New York, has gone on a trip to Egypt, and expects to meet J. M. Keller there and gather cyclamen persicum and nelumbiums on the banks of the Nile, in company with that distinguished plantsman, with the kind permission of the crocodiles.

Recent visitors in Buffalo: J. A. Valentine of Denver, Arnold Ringier of Chicago, F. R. Gillmann, of Rhinebeck, Max Beatus of Dayton, P. R. Quinlan of Syracuse, Wm. Schomburg of Rochester, P. Berkowitz of Philadelphia and Wm. Hagemann of New York.

SEED TRADE TOPICS

TEST OF 1905 SEED NOVELTIES.

Translated by G. B.

The Society for Promotion of Horticulture in Prussia publishes their annual 1905 report of culture-tests of novelties in this month's issue of "Gartenflora." The report is very interesting, because the plants reported on are figuring conspicuously in the novelty pages of 1906 catalogues of seed firms, it affords for intending buyers an entirely disinterested judgment of their value. We give an exact translation of the report without comment.

Flowering Plants.

Centaurea tuerpialis gigantea. The plants grew above three feet high, had long stems, which produced white flowers, not quite as large as in *Centaurea Marguaritae*, which they most resemble, and which we took them at first to be. The pleasant odor of the flower deserves special mention.

Reseda odorata grandifl. Victor. a. perfecta. This is an improved form of the *Victoria mignonette*. We can justly say that the blooms are much more intensively red, or better brown. In habit they are like the old form; but the variety does not come altogether true, as there are many ordinary *Victoria* among the seedlings; otherwise good.

Dianthus laciniatus mirabilis. Like most of the garden pinks the plant is one foot high; very small leaves, flowers three inches across and much more divided than the ordinary *laciniatus*, in aspect almost like a spider web; very soft shades of color very graceful as cut flowers and as grouping plants.

Winter Stock Queen Alexandra. (Perhaps the same as "Queen of Alexandria," mentioned in some catalogues.—Note of translator.) This is a very early variety, 80 per cent. double; flowers about July; a seedling from last year's beautiful novelty Beauty of Nice; color of flowers lilac-rose; stems 11-2 feet high, good for field culture.

Tagetes patula nana parvifl. fl. pl. Liliput. These marigolds are advantageously grown in shaded places, where they will thrive and flower well. In the public gardens of Berlin and Potsdam they have been used extensively.

Phlox Drum. gr. fl. nana compact. "Cacilien Phlox." Dwarf summer phlox remarkable for the many blue colors in the seedlings; to be recommended.

Silene pendula "Elfride." A novelty with lilac flowers, which color is new among the silenes; the foliage is yellow, but not a pleasant contrast; the seed should be sown about Christmas, the plants later on to be put in cold frames.

Dahlia variabilis "Lucifer." A single dahlia, which comes true from seeds; flowers about 2 inches across, dark scarlet; foliage dark red; good for decorative foliage groups.

"Colossal." Very large flowering single dahlia, flowers erect, all colors.

Dutch Giant Dahlias. "Herzog Hein," crimson-red. "Glory of Baarn," rose violet; half filled. "Hollandia," soft violet, well-filled and of noble form, good cropper. "Paul Kruger,"

light rose, dark striped. "Dr. K. W. v. Gorken," light rose, very large, half filled. "Germane," carmine-red, highly filled.

Cactus Dahlia. "Fire-ray." Well named; good cropper.

Impatiens Holstii. The plants grow to be 11-4 ft. high, and part of them to that circumference; color, brilliant vermilion red; always three to four flowers on the tips of the branches, each flower being about 11-4 inches in diameter; better grower than *I. Sultani*.

Schizanthus hybridus gr. fl. Supposed to be a better hybrid of the old form; we, however, couldn't possibly find any difference; crop matured quickly, but succumbed to first cold rains; it seems the plant will not stand manuring.

Cheiranthus incanus nanus comp. alba. Made little compact globulous bushes 1 ft. high; as late as Sept. 1.; first flowers, however, all double; seems to want a different culture from the ordinary winter stocks.

Linaria cymbalaria compact. alba. Another creeping plant that in this variety has acquired a globulous habit; about 1 ft. high; the small white iobelia-like flowers standing directly above foliage; best for carpet bedding.

Linaria c. globosa. Similar to above, but lilac color.

Polygonum oxyphyllum. Strong growing perennial 21-2 ft. high, leaves gray-green; did not flower.

Aster perennis hybr. Snowflake. Two ft. high perennial fall aster. first flowers impure violet; later white; not bad.

Aster perennis hybr. Townshendi. Strong growing perennial; did not flower.

Aster Hohenzollern; glossy salmon rose. A new color of this aster, good for cut flowers; color true to name.

Aster Gitania. Intended to become a new strain, almost 2 ft. high; flowers 8 inches across; character like Comet asters; colors rose, light blue and white; for large vases; not bad.

Rekord Aster, hortensian-rose. Needle-like flowers, but in size beaten by *Gitania*; color doubtful; not a favorite with us.

Rekord Aster, lilac. Same as above, lilac.

Heliotropum hybr. gr. fl. Cyklop. One and one-half to 2 1-2 ft. high; flower clusters 12 inches across and more; very fragrant; color lilac, light and dark blue; an excellent novelty; surely the largest flowering *H.* of its time; good for large grouping beds.

Physostegia virginiana gr. fl. alba. A pretty white labiateae for cut flower uses.

Echinacea Helianthus. If true to name should produce red sunflowers. Did not flower with us; report later. *Nicotiana Sanderae. N. affinis x N. Forgetiana*; with us germination of seeds did not take place at all.

Gypsophila elegans gr. fl. "Covent Garden." Flowers larger than in known variety; otherwise no difference.

To be Continued.

D. M. Ferry & Co., report a busy season, 3,000 bushels of peas to one firm being among their large orders.

NATIONAL CANNERS' ASSOCIATION.

The annual convention of the National Canners' Association opened at Atlantic City, N. Y., Dec. 14. About 700 delegates representing the chief firms in this important industry from all parts of the United States were present besides a representative element of the wholesale seed trade and quite a number of seed growers. Headquarters were at Hotel Rudolph and the exhibition of machinery, etc., was tastefully decorated for the occasion. So well pleased were the visitors with this resort as a convention point that it is likely the future conventions will be held at the same place. There was little activity in the bean market. Peas were in some little demand, Alaska Admiral, Advancer and Surprise being the principal varieties inquired for. Bookings for crop of 1907 were liberal and most of the growers and wholesalers did considerable business.

Among the seedsmen present were W. H. Grennell, A. L. Rogers, Jerome B. Rice, Robert Livingston, W. C. Langbridge, W. H. Buckbee, J. Bolgiano, Mr. Pease and Mr. Bradstreet of the Cleveland Seed Co., C. N. Keeney, O. F. Leonard, Arthur Clark and brother, Watson, Woodruff, McMorran and Grey, the Canadian pea growers, Mr. Parmelee of the Jno. H. Allen Seed Co., W. A. Dennison, Frank S. Platt, W. Atlee Burpee and Howard Earl.

CATALOGUES RECEIVED.

Frantz de Laet, Contich, Belgium. Catalogue of cacti and other specialties.

Chicago Carnation Company, Joliet, Ill. Price list of new and standard carnations for 1906.

George W. P. Jerrard Co., Caribou, Me. 1906 catalogue of seed potatoes, early corn and seeds.

Burpee's 1906 Wholesale Seed Prices for Market Gardeners and Florists. W. Atlee Burpee & Co., Philadelphia.

Thomas J. Grey & Co., Boston, Mass. Seed Catalogue for 1906. Lists also trees, garden plants and implements.

Rosedale Nurseries, S. G. Harris, Prop., Tarrytown, N. Y.—Supplement to general catalogue of plants, shrubs, roses and trees.

F. E. Conine Nursery Co., Stratford, Conn. Spring and Fall, 1906, Catalogue. A well printed, illustrated list of choice nursery stock.

"A Little Green Book for the Gardener." A cute little pocket catalogue issued for 1906 by Henry Saxton Adams, Jamaica Plain, Mass.

Hammond's Slug Shot Works, Fishkill-on-Hudson, N. Y. Pamphlet of Horicum, the San Jose Scale Killer, Thrip Juice, and other insect remedies.

Griffith & Turner Company, Baltimore, Md. Catalogue No. 19 of Farm and Garden Supplies. A very complete list, especially of machinery and farming implements.

Thirtieth Anniversary Supplement, including prize awards of 1905—and the story of "Seeds That Grow." With

A R I S T O C R A T

WILL BE AT TORONTO WITH THE GOODS

CHICAGO CARNATION CO., JOLIET, ILL.

numerous illustrations. W. Atlee Burpee & Co., Philadelphia.

Hoopes, Brother & Thomas, West Chester, Pa.—Handbook No. 2, of ornamental trees and plants. A pine branch and cone forms a very appropriate cover adornment to this finely illustrated publication.

Moon's Trees, 1906, Horticultural Art Book issued by the Wm. H. Moon Co., Morrisville, Pa. Typographically one of the finest catalogues of the season. Text and pictures calculated to whet the appetite for lawn and garden beauty.

Arthur Cowee, Berlin, N. Y., Catalogue, 1906, of Groff's New Hybrid Gladioli. Mr. Cowee is all right and so are his gladioli. He has devoted a life of ceaseless industry to this specialty and well deserves the great success he has achieved.

LISTS OF PATENTS.

Issued January 30, 1906.

- 810,972. System for Sprinkling Lawns, Gardens, Greenhouses, Parks, etc. Frank H. Paradise, Denver, Colo.
- 811,276. Arbor. John Cooper, Diamond, La.
- 811,373. Warp Stop Motion. Thomas A. B. Carver, Glasgow, Scotland.
- 811,508. Sash-Lifting Apparatus for Greenhouses. William O. Johnston and Phillip J. Foley, Chicago, Ill.

Issued February 6, 1906.

- 811,600. Combined Weeder, Orchard-Cultivator and Fallow-Plow. William Turner, Wenatchee, Wash.
- 811,651. Fruit-Display Box. George E. Miller, Riverside, Cal., assignor of one-half to Edward L. Pequegnat, Riverside, Cal.
- 811,712. Adjustable Stand for Flower-Pots. Adolph Graefe, Brooklyn, New York.
- 811,951. Greenhouse and Other Glazed Structure. Paul M. Pierson, Ossining, N. Y., assignor to The Pierson-Sef-ton Co., Jersey City, N. J., a corporation of New Jersey.
- 811,978. Strawberry-Vine Trimmer. Nels A. Weigen, Clearlake, Iowa.

IMPRESSIONS OF NEW CARNATIONS.

Remarks By Edward A. Stroud At Florists' Club Of Philadelphia, Feb. 6, 1906.

To rightly judge a carnation on the exhibition table, a good idea is to scale it up according to one's own judgment on the points adopted by the Carnation Society; you will be surprised how much better knowledge you will get of a variety by following this method.

Lady Bountiful showed up prominently, winning all prizes in the class of whites; if any fault, it shows a lack of substance which is against it as a shipper.

My Maryland unfortunately could not be staged by Mr. Weber, as that variety with his other exhibits (some 1200 flowers in all) carried poorly, owing to the warm weather. The Strafford Flower Farm showed 100 of this variety and was fortunate enough to secure an award. Mr. Weber has made an announcement to the trade through the various papers which is a square deal. My Maryland, as you know, has not been successfully grown everywhere. As grown at Strafford, its habit differs entirely from its growth with Mr. Weber; but we do not by any means pronounce it unworthy and feel confident that if certain grassy peculiarities can be eliminated this variety will prove a good thing, as its keeping qualities are above par. Enchantress was shown extensively and nothing could compete with it in its color. It occupies a field of its own.

Robert Craig is certainly a thoroughbred; it looked beautiful staged, and as seen growing at Mr. Ward's. Whether this fine condition can be duplicated by the smaller growers and whether it can be made a commercial success is a question yet to be decided.

Mr. Fisher's new red seedling Beacon, looked well, standing out prominently from all others in its brightness of color; seeing it growing at his place impressed me with its commercial value, being such a free bloomer; its stem seemed a trifle weak, but not sufficiently so to injure it.

Red Lawson will do when there are no other good reds about. We

do not like its color. The extensively advertised Victory showed up well; many orders have been booked for it. Mr. Guttman telling us of five firms who had placed orders aggregating 120,000. We have seen it only on the exhibition table. Mr. Haines is as enthusiastic as ever about his red carnation named after him. It did not carry well to Boston, but as we saw it growing at his place last March it was a grand sight. We notice the reports from the west say it is inclined to be somewhat sleepy during the early fall months. We were further convinced of its good qualities after seeing it growing at Peter Fisher's.

The Lawson gold medal winner, Elsa Struss, a seedling of Mr. Ward's, was beautiful, and seeing it grow convinced us that it will be heard from, as it resembles Enchantress in habit and looks free. Mrs. Ward, another seedling of Cottage Gardens showed breeding; it is a question whether it would not have given a good run for the medal if 100 blooms could have been shown.

Aristocrat is certainly ideal in form, calyx and stem. Personally, we are tiring of the Lawson shade of pink. Helen Goddard, while not a large flower, is recommended for its commercial value. It is slightly lighter in color than Lawson. We did not have a chance to see it growing. Pink Patten, a sport from Mrs. Patten, was not particularly interesting to us.

Evangeline, another seedling of Peter Fisher's, has merit; as we saw it growing, it looked healthy; it is smaller than Enchantress, brighter in color, has good substance, and seemed freer. Mr. Fisher told us he would not send it out unless he could eliminate its slight tendency to burst. It is a question if there is a market for Evangeline, if Enchantress keeps up its good name. Fiancee was not largely shown, having no entry in either the 100, 50 or 25 class. We imagined it was impossible to get so many good flowers together.

Winsor attracted us especially—its color being a very pleasing shade of pink. It showed all the requirements of a first-class flower.

Taking it all in all, the show was a success. The public seemed to appreciate that it was free to all, and we trust Toronto will be able to arouse the same enthusiasm when the convention meets there.

500,000 COLEUS

Verschaffeltii, Golden Bedder and fancy named varieties. Can deliver at once or will book orders for March and April delivery

Rooted Cuttings, 60c. per 100, \$5.00 per 1000 Cash.

H. N. EATON, South Sudbury, Mass.

QUEEN BEATRICE

NEWS NOTES.

John Clump, 25 years old, employed by H. F. A. Lange, Worcester, Mass., fell through the roof of a greenhouse while making repairs on January 31. He was taken to the Emergency Hospital.

Park Commissioner Ginther of Buffalo, N. Y., asks for an appropriation of \$10,000 for a new plant propagating house in Humboldt Park, and \$6000 more for repairs on park conservatories to meet the necessary demand for plants for the small parks, triangles, etc.

The study of the structural timbers of the Pacific coast was begun by the Bureau of Forestry, now the Forestry Service, in 1902, in order to determine with greater accuracy the exact scope of their commercial use. The red fir and the western hemlock (better known as Washington pine, Alaska pine or gray fir) have hitherto monopolized the tests with the results that there has been a largely increased demand for both. About a year ago the Forest Service issued a circular, "Progress Report on the Strength of Structural Timber," which has been exhausted by the request made for it. A revised edition is now in preparation.

BUSINESS CHANGES.

The Washington Floral Co., 85 S. Main street, Washington, Pa., is to be under the exclusive management of J. V. Poague in future.

Walter R. Boody of Northwood, N. H., who has been associated with his father, G. W. Boody, in the florist business for the past few years, and Prof. E. K. Welch will open a general florist and gardening business at York Harbor, Me., about April 10.

The Lake Newell Floral Co. has been incorporated at East Liverpool, O., with Thomas Anderson, president; Fred B. Lawrence, secretary and treasurer. It is said that Gus Bradenburgh, now in the employ of the Thompson Park commission, will be manager. A large greenhouse is to be built at Newell.

Mr. George Baldwin, for the past six years in charge of the orchid department of Siebrecht & Son, New Rochelle, N. Y., will establish a plant exclusively for orchid growing, under the firm name of Carrellis & Baldwin. The new concern will be ready for business April 1, and will be located at Secaucus, N. J. Mr. Baldwin leaves his position under most pleasant conditions and carries with him the best wishes of his recent employers for his success.

Announcement

I HAVE pleasure in announcing, that I have this day purchased all the assets of the Clucas & Boddington Company, which includes their Nurseries, and stock thereon, located at Sparkill, N. Y., and will conduct the business as formerly from this address, to be known as the "**Palisades Nurseries.**"

Special Surplus Lists, of Dahlias, Phlox, Hardy Perennials, Evergreens, and Flowering Shrubs, and Bulbous Stock, of which I have a very extensive collection, will be sent to the Trade on application, and a regular price list, now being prepared, will be mailed when ready.

I have retained most of the former employees to assist in the management, and intend conducting the business, as heretofore, assuring customers of prompt and careful attention to all orders entrusted to my care.

I would be pleased to receive special quotations, and Trade Catalogues, on general Nursery Stock.
JOHN M. STEVENS
The Palisades Nurseries.

A BARCAIN

I have for sale a modern range of greenhouses, 25,500 feet of glass, 1 1/2 miles from wealthy growing city of 28,000 people. Forty-five minutes from Pittsburg, Pa. Three railroads and express lines, 28 acres. Ideal soil for roses and carnations in abundance. Admirably adapted to the growing of small fruit and garden crops.

Sixty horse power boiler, steam heat. Free natural gas for all light and fuel for greenhouses, and farm buildings. A most complete private water system, 1,000 barrel storage tanks, large dam, never failing springs. Producing oil well on the farm. Buildings high and dry, away from all smoke, dust and dirt, fogs unknown, plants free from disease, houses well stocked and producing paying crops, best market selling high grade stuff direct to retailers. Best of reason for selling. Price, \$22,000, part on time, will show a net profit of 24% above expenses, can be increased. This offer will bear closest investigation.

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I am interested in a glass factory in Jersey. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted.

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Catalpa Speciosa, Black Locust, Nursery grown and collected seeds and seedlings.

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McMINNVILLE, TENN., R. F. D. 2

Chrysanthemums

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MONEY MAKERS

Orders are Coming Fast

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**FIRST COME
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BEST STOCK**

We also offer the FOREIGN INTRODUCTIONS OF THE YEAR: WELLS-POCKET SET, SUNDRY AUSTRALIAN, ENGLISH and FRENCH, also BEST of LAST YEAR'S NOVELTIES. EXCELLENT STOCK READY NOW.

For further particulars see our catalogue
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NOTICE—Do not allow distance and Express charges to deter you from giving us your order. Rate from Adrian to Boston only \$1.75 per 100 wt.

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ROOTS IN ANY QUANTITY

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Successor to

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Surplus Stock 4,000 Berberis

Thunbergii, 8-12 in.	\$3.50 per 100
Thunbergii, one year	2.50 per 100
Vulgaris (common) Berberis	
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Cash Please.

PIERCE NURSERY, Beverly Farms, Mass.



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Nephrolepis Piersoni Elegantissima

See our advertisement in issue of Dec. 9—Page 623.

R. & J. FARQUHAR & CO.

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KENTIA BELMOREANA

	Doz.	100
3½ inch Pots 4-5 leaves	\$2.00	\$15.00
4 " " 5-6 " "	4.50	35.00
5 " " 6-7 " "	at 1.00 each	

F.O. B. Boston, no charge for packing

Cash with order or satisfactory references

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GERANIUMS

We have at least 150,000 geraniums in 2½ in. pots and in fine condition and the leaders at \$1.00 per 100, \$2.00 per 100

	Per 100
Rose Geraniums, 2½ in. \$18.00 per 100	\$2.00
Ageratum Gurney, P. Pauline and others	2.00
" " R. C.	2.00
Fuchsias all the leading varieties, 2½ in.	3.00
Heliotrope, all dark, 2½ in.	3.00
Sweet Alyssum 2½ in.	2.00
Lobelia, 2½ in.	2.00
Alternanthera, rooted cuttings.	.50
German Ivy, all rooted cuttings.	.50
English Ivy, extra fine rooted cutting.	1.50
The World and all of Coleus R. C.	.60 per 100
\$5.00 per 1,000. Cash must accompany the order.	

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Over one million plants ready from our Famous Strain. None better. \$1.50 per 500. \$2.50 per 1000.

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Forget-me-not, Hardy blue, \$3.00 per 1000.
Geraniums out of 2 1-2 inch pots, best varieties, \$1.50 per 100. 50,000 ready now.

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Sphagnum Moss and Cedar Poles
Moss 15 lb Bale, \$1.25; 3 Bales, \$3.75; 5 Bales, \$5.00; Pkg Moss, 10 Bales, \$7.50. Poles, 2 inch butt 8 feet long, \$15.00 per 1000; 2½ inch butt 10 to 12 feet long, \$22.50 per 1000. Cash.
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All our grafted Roses are from flowering wood grafted on Dickson's Irish disbudded Manetti stocks, and are now in exceptionally fine shape.
Killarney, \$15 per 100; \$150 per 1,000. Bride, Bridesmaid, Kaiserin, \$12 per 100; \$120 per 1,000. To prevent disappointment order now as stock is limited.
Own Root Richmond Roses, \$12 per 100. Killarney, \$10 per 100. American Beauty, own root from 2½ inch pots, \$6 per 100; \$50 per 1,000.

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A Large Assortment of Ferns for Jardinieres
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Giant Strain; none better; including Salmonium, New fringed, Roccoco and Papilio in five separate Colors.

\$2.50 per 100, \$22.00 per 1000.

C. WINTERICH, Defiance, Ohio.

Consult Buyers' Directory and List of
New Offers on Pages 202, 203 and 204.

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BEGONIAS

Tuberous Rooted

	Per doz.	Per 100
Single White	\$0.35	\$2.25
" Yellow	.35	2.25
" Nankeen	.35	2.25
" Pink	.35	2.25
" Rose	.35	2.25
" Red	.35	2.25
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" Salmon	.35	2.25
" Orange	.35	2.25
" Mixed	.30	2.00
Double White	.65	5.00
" Yellow	.65	5.00
" Orange	.65	5.00
" Rose	.65	5.00
" Dark Rose	.65	5.00
" Dark Red	.65	5.00
" Red	.65	5.00
" Salmon	.65	5.00
" Mixed	.50	4.00

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Largest Importers, Exporters, Growers
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ORCHIDS

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HOTHOUSE GRAPE VINES,

fine strong, two and
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PHILADELPHIA NOTES.

H. Bayersdorfer & Co. have bought out the stock, fixtures and good will of the florists' supply establishment of Mr. Hantsch at 7th and Lehigh avenue. Mr. Bayersdorfer, Jr., is at present running the concern.

Geo. D. Clark of the Henry A. Dreer Corporation says that perennial seeds should be sown within the next 30 days. If this is attended to at once most of them will flower the first year and give a handsome profit on the investment.

E. H. Bauer of Chiselmhurst, N. J., has just placed a contract with the Burnham, Hitchings, Pierson Co., through D. T. Connor, for an addition to his carnation establishment, 100x 28, with all the latest improvements.

The Riverton Nurseries (Dreer's) have recently purchased 76 acres nearby (at Cinnaminson), where they are to grow perennials and other stock. No glass will be erected at present. The soil is a deep heavy loam and much superior to the sandy character which generally prevails in this part of Jersey. At Riverton two new houses have been erected for dahlias. A dahlia bought here labeled Frank D. Smith will be Frank D. Smith and not something else. That's the Dreer way.

W. S. Maull, late treasurer of the defunct Peacock Company, is back in his old position in the accounting department of Lit Bros.

J. D. Eisele will arrive home from Europe on the S. S. Amerika of the Hamburg-American Line on Feb. 19.

MONTREAL NOTES.

Cooper and Johnson are giving a gold medal for competition at the fall Horticultural Show. See their seed catalogue for particulars.

Michael Judge has been elected Mayor of St. Paul. If His Worship manages the affairs of that prosperous town as well as he does his carnations and ferns, we prophesy a very pleasant and prosperous year.

J. McKenna was elected Councillor of Cote des Niges after a hard fight. Joseph Ward, the wholesale agricultural seedman, was elected alderman by acclamation of the city of Montreal. Montreal's florists seem to combine politics and the trade pretty lively, as we have one mayor, one alderman and three councillors among us.

Cut flower trade still keeps very brisk, the supply not being nearly equal to the demand. Carnations are still keeping well to the fore. There seems to have been a lot of diseased Harrisii lilies last year, some of our florists losing half of their stock. Hall & Robinson have a very fine sport of Pink Lawson carnation, color a light pink and very free flowering.

Frank P. Lane of Bangor, Me., has leased the Morrill greenhouse to Brewer for a term of years.

DETROIT

John Breitmeyer's Sons

Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

Artistic Designs High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

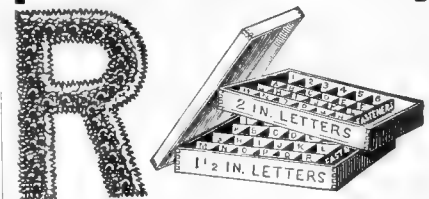
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Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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66 Pearl Street. BOSTON, MASS.

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We manufacture all our Metal Designs, Baskets, Wire Work & Novelties and are dealers in Glassware Decorative Greens and Florists' Requisites.

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WHOLESALE FLOWER MARKETS TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		ST. LOUIS		PHILA.		BOSTON	
	Feb. 13		Feb. 12		Feb. 7		Feb. 15	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	40.00	to	48.00	35.00	to	40.00	to	75.00
Extra.	24.00	to	32.00	20.00	to	30.00	to	60.00
No. 1.	18.00	to	20.00	10.00	to	15.00	to	35.00
Lower grades.	8.00	to	12.00	4.00	to	8.00	to	15.00
Bride & Maid—Fan. & Sp.	10.00	to	12.00	8.00	to	10.00	to	20.00
Extra.	6.00	to	8.00	5.00	to	6.00	to	15.00
No. 1 and Lower gr.	4.00	to	6.00	3.00	to	4.00	to	12.00
Liberty, Fancy.	12.00	to	18.00	8.00	to	12.00	to	25.00
Ordinary.	6.00	to	10.00	4.00	to	8.00	to	12.00
Richmond, Fancy.	15.00	to	20.00	8.00	to	10.00	to	25.00
Ordinary.	6.00	to	12.00	4.00	to	6.00	to	15.00
Golden Gate, Fancy.	8.00	to	12.00	8.00	to	10.00	to	15.00
Ordinary.	4.00	to	6.00	4.00	to	6.00	to	10.00
Chatenay, Fancy.	10.00	to	12.00	8.00	to	10.00	to	20.00
Ordinary.	4.00	to	6.00	4.00	to	6.00	to	10.00
CARNATIONS								
Fancy.	4.00	to	5.00	3.00	to	4.00	to	5.00
Ordinary.	2.00	to	3.00	2.00	to	2.50	to	3.00
MISCELLANEOUS								
Cattleyas.	40.00	to	48.00	35.00	to	40.00	to	75.00
Cypripediums.	24.00	to	32.00	20.00	to	30.00	to	60.00
Lily of the Valley.	2.50	to	5.00	1.50	to	3.00	to	5.00
Violets.	1.00	to	1.50	.45	to	.50	to	1.00
Tulips.	2.50	to	5.00	3.00	to	4.00	to	5.00
Roman Hyacinth, Paper White, Nar.	2.00	to	4.00	1.50	to	2.50	to	3.00
Daffodils, Trumpets.	2.00	to	4.00	1.50	to	2.50	to	3.00
Mignonette.	4.00	to	10.00	2.00	to	6.00	to	10.00
Adiantum Cuneatum.	.50	to	1.25	1.00	to	1.75	to	2.00
Crowneum.	.75	to	1.50	1.00	to	1.75	to	2.00
Smilax.	12.50	to	15.00	12.50	to	15.00	to	15.00
Asparagus Plumosus, strings.	35.00	to	50.00	25.00	to	50.00	to	50.00
" " & Sprenger's bunches	25.00	to	40.00	25.00	to	40.00	to	50.00

J. A. BUDLONG

37-39 Randolph Street, CHICAGO

Roses and
 Carnations
 A Specialty.....

WHOLESALE
 GROWER OF CUT FLOWERS.

TO BUYERS

Patronize our advertisers, they will treat you right

VICTORY

The most prolific of scarlets, is a fancy in the fullest sense of the word, requires only ordinary culture, wholesaled at \$25.00 per 100 at Christmas.

Cut Flower Market Reports.

BUFFALO Wintry conditions, with the thermometer below zero, have kept the florists busy handling coal. Roses have been in steady demand with prices unchanged, but there were enough to satisfy all. Carnations were plentiful and the prices dropped considerably, Enchantress being leader in quality. Prices have not changed much, while ordinary stock required some urging, which blocked up considerable. The violet trade livened up and prices held firm. Bulbous stock was plentiful and in fair demand, while lilies of the valley and Roman hyacinths are still on the quiet list. Sales of green goods are awakening some.

BOSTON The top grade of American Beauty rose is missing from our quotations this week—the first time within a year. Very few blooms of any grade are coming in the most of these being but little better than ordinary Bonsilenes in size. Other roses, while not overabundant, are excellent as to quality and increasing in quantity and probably another week or ten days will find them in supply sufficient for all demands. Carnations are splendid and the cold weather has reduced the receipts with good results on the market value. Violets are selling better than for some time past, Valentine's Day furnishing the needed stimulus. All bulbous stock and lily of the valley is abundant. La Reine tulip is the best seller on the list. Sweet peas are increasing in supply and are very choice in quality generally.

CLEVELAND The retail stores have been showing a number of novelties in floral valentines, such as lavender and purple violet boxes, tied with maline, purple and gold cords, designs in willow ware, hearts pierced with arrows and holding violets and lily of the valley, Indian tepees, bird's nests, etc., which are very effective.

The market is fair, stock good and quite plentiful; there is a profusion of violets, and lily of the valley, all exceptionally fine.

DETROIT The bright side of business was in evidence again the past week, which means another step toward a busy season. An extensive supply of bulbous stock has served to weaken the prices on carnations. Roses are beginning to show up better both in quality and quantity, though Beauties have been scarce. Violets are more salable each week, and forget-me-nots

are not forgotten. There are some very fine specimens of rhododendrons and other flowering and foliage plants which sell satisfactorily.

There has been much design work at times to keep florists busy.

LOUISVILLE Business conditions the previous week were in some cases a little slow. Carnations are of satisfactory quality and have a great demand. The supply is good. The quality of roses is fine, with the supply and demand satisfactory. Lilies of the valley, mignonette, forget-me-nots, violets, etc., find very gratifying demands, with the supply generally fair. Hyacinths, jonquils, tulips, etc., are not neglected, and are in good supply.

NEW YORK Dark skies, Valentines' Day, Roosevelt wedding and a host of other events have conspired to make a little tumult in certain lines in the floral business. American Beauty roses of the higher grades have soared to full Christmas values, but are impossible of realization, for the very good reason that practically none are in existence. All roses, also violets, and some other staples are enjoying a better market this week than last. Bulbous stock is of course abundant and affected but little by the improved demand.

PHILADELPHIA Good business last week and stocks generally well cleaned up. A healthy tone and little left over is often better than a boom in prices with a slump at the finish. Quotations generally have been firm without advances, as the distributing centers have been wise enough to think of their steady buyers and consider what the market would stand without flopping. Good prices are ruling now. White roses were about the scarcest item on the list. Carnations moved with a rush towards the end of the week. Notwithstanding the enormous receipts of bulbous flowers the market absorbed same at fairly remunerative figures. Cattleyas were very scarce. Marguerites are improving and white lilacs are still fine. That harbinger of spring, the pussy willow, is in town with his wife and dots the fields of commerce with bunny tails, suggesting the madness of March to the passing throng. Gardenias are more plentiful.

SAN FRANCISCO The demand incidental to a triple funeral of heroes who lost their lives in trying to save the lives of others at the U. S. transport Meade fire in the bay sent prices of tea roses and American Beauty to threefold above normal, the supply being but scant of what was

wanted. All of last Saturday and until Sunday afternoon, while the bodies lay in state in the great rotunda of the City Hall, tens of thousands of people passed through the long floral bordered lane leading to and about the flower-built bower in which the caskets were half concealed. In addition to the wagon loads of bouquets, mostly dollar bunches of cut blooms, largely of violets, of which there is no dearth, there were many beautiful designs, the pieces standing higher than the heads of tall men and almost concealing the endless line of people.

BOWLERS ENJOY THEMSELVES.

The annual banquet of the Boston Seed Trade Bowling League was held last Monday night at the Langham Hotel and about sixty members and guests were present.

President Harry Jenner presided and acted as toastmaster, introducing the following speakers: Mr. Edward Crowley, Joseph Free, William Davy Chris Enholm, John Guérineau, William Cahill, Stanley Perry, Herbert Capers, William Nicholson, James Rough and Grafton Thorp.

During the evening songs were rendered by Mr. W. Haley, Harry Hodgkins, Jos. Free, Harry Jenner, William Davy, M. Holland, and last but not least Mr. Harry Reid, who was easily the hit of the evening. Mr. William Casey and Chester Carruth rendered some very fine selections on the piano.

Mr. W. C. Binns, manager of the alleys where the boys bowl, was presented with a gold charm as a token of appreciation for the good treatment he has accorded them during the season.

The R. & J. Farquhar & Co. team proved that they were hard to beat by finishing in the lead, winning the pennant for the second time. The teams finished as follows:

	Won.	Lost
R. & J. Farquhar & Co.	30	15
Schlegel & Fottler Co.	28	15
Jos. Brock & Sons	27	18
W. W. Rawson & Co.	25	22
Phil. St. Flower Market	24	22
McC. Hall Flower Market	23	23

FIRE RECORD.

A greenhouse owned and occupied by Philip Lowenbaup on Mount Olivet avenue, Middle Village, N. Y., got on fire Feb. 4, causing a damage of \$150.

"Frederick Justus Geist, florist, Melrose, Mass., has filed a voluntary petition in bankruptcy. His liabilities amount to \$11,790, of which \$928 is for tax, \$66 for wages, \$7310 secured, and \$1459 accommodation paper. There are about 30 unsecured creditors. Assets are estimated at \$9645, of which \$9200 is represented in commercial real estate."—Boston Globe.

FRANK MILLANG
 Wholesale Commission Florist
 COOGAN BUILDING
 55-57 W. 26th Street, NEW YORK
 Tel. 299 Madison Sq. Open 6 A. M. to 5 P. M.
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FORD BROTHERS
 48 West 28th Street, NEW YORK
FINE ROSES FANCY CARNATIONS
 A Full Line of ALL CUT FLOWERS
 Telephone, 3870 or 3871 Madison Square.

ALEX. J. GUTTMAN
 THE WHOLESALE
FLORIST
 OF NEW YORK
 Phone 1664-1665 Mad. Sq. 43 W. 28th St

WE HAVE A GOOD OPENING
 for a grower of lily of the valley and general bulbous stock. Would like to communicate with growers of good bulbous flowers. Can handle them at good prices. Also asparagus plumosus. Let us hear from you.

A. L. YOUNG & CO.
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 Tel. 3559 Mad. Sq. 54 W. 28th St., New York

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ORCHIDS A SPECIALTY
 THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
 BEST BEAUTIES, METEORS, BRIDES AND BRIDESMAIDS
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 send your flowers to

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 Richmond Roses and Rich Flowers
 of all varieties

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Feb. 10 1906	First Half of Week beginning Feb. 12 1906		Last Half of Week ending Feb. 10 1906	First Half of Week beginning Feb. 12 1906
Roses			Carnations		
Am. Beauty and Edgeley fan and sp.	75.00 to 100.00	75.00 to 100.00	Fancy	3.00 to 6.00	3.00 to 6.00
" extra	40.00 to 50.00	40.00 to 50.00	Ordinary	1.00 to 2.00	1.00 to 2.00
" No. 1	25.00 to 30.00	25.00 to 30.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
" Lower grades	3.00 to 10.00	3.00 to 10.00	Cypripediums .....	.....	.....
Bride & 'Maid, fan and sp.	10.00 to 12.00	10.00 to 12.00	Lily of the Valley	1.00 to 3.00	1.00 to 5.00
" extra	6.00 to 8.00	6.00 to 8.00	Violets .....	.40 to .60	.40 to .60
" No. 1 and lower grades	3.00 to 6.00	3.00 to 6.00	Tulips	1.50 to 5.00	1.50 to 5.00
Liberty, fancy	25.00 to 50.00	25.00 to 50.00	Roman Hyacinth, Paper White Nar. ..	1.00 to 2.00	1.00 to 2.00
" ordinary	3.00 to 15.00	3.00 to 15.00	Daffodils, Trumpets	1.00 to 2.00	1.00 to 2.00
Richmond, fancy	25.00 to 50.00	25.00 to 50.00	Nigella	3.00 to 8.00	3.00 to 8.00
" ordinary	3.00 to 15.00	3.00 to 15.00	Adiantum .....	.75 to 1.25	.75 to 1.25
Golden Gate, fancy	8.00 to 15.00	8.00 to 15.00	Cuneatum .....	.....	.....
" ordinary	3.00 to 5.00	3.00 to 5.00	Croweanum .....	.....	.....
Chatenay, fancy .....	.....	.....	Smilax	6.00 to 15.00	8.00 to 15.00
" ordinary .....	.....	.....	Asparagus Plumosus	25.00 to 35.00	25.00 to 35.00
			" & Sprenger, bunches	15.00 to 25.00	15.00 to 35.00

JOHN YOUNG
 Wholesale **FLORIST**
 51 West 28th St., New York
 Telephone, 4463-4464 Madison Sq.
 Best Beauties, Brides and Bridesmaids.
 Lily of the Valley, Orchids and
 Lilies. Renowned Cottage
 Garden Carnations.

Edward C. Horan
 Wholesale Florist
 55 WEST 28th ST.
 Tel. 1462 Madison Sq. New York
 1463

TRAENDLY & SCHENCK
 WHOLESALE FLORISTS

Furnish best stock at fair prices all the year round Send for quotations on fall orders
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Young & Nugent
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Michigan Cut Flower Exchange

WM. DILGER
Manager

\$1.25 per 1000

Discount on Regular Shipments

Charles Millang

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A Reliable Place to Consign to or order from
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ORCHIDS AT ALL SEASONS

WM. STUART ALLEN CO.

Commission Merchants in Cut Flowers

53 WEST 28TH STREET, NEW YORK

Telephone 356 Madison Square

J. B. Murdoch & Co.

Wholesale Florists

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and returns made promptly.

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Telephone, 280 Madison Sq.

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ALFRED H. LANGJAHR

All Choice Cut Flowers in Season

55 West 28th St., New York

Telephone 3924 Madison Square.

CARNATIONS AND ROSES

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504 Liberty Ave., Pittsburg, Pa.

We hope our readers, will as far as
possible, buy everything they need
from Horticulture's Advertisers.

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ALL VARIETIES

SHIPPED TO ALL POINTS

Florists' Supplies
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Lowest Wholesale Rates

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WM. F. KASTING

Wholesale Commission Florist, also Dealer in
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BUFFALO, N. Y.

Give us a trial.

We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000 Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

NEW CROP SOUTHERN WILD SMILAX \$3.50 and \$7.00 per Case.

Headquarters for all FLORISTS' SUPPLIES. Wire
Designs, Cut Wire, Letters, Immortelles, Cycas Leaves,
Wheat Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard

HENRY M. ROBINSON & CO. 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main, 2618



WHOLESALE FLOWER MARKETS.

PER 100.
TO DEALERS ONLY.

	CINCINNATI Feb. 11	DETROIT Feb. 12	BUFFALO Feb. 13	PITTSBURG Feb. 12
ROSES				
Am. Beauty and Elgely. fan and sp.	40.00 to 50.00	50.00 to 60.00	50.00 to 60.00	60.00 to 70.00
extra.	25.00 to 30.00	40.00 to 50.00	40.00 to 50.00	50.00 to 60.00
No. 1.	20.00 to 25.00	25.00 to 30.00	25.00 to 30.00	25.00 to 30.00
Lower grades.	5.00 to 10.00	10.00 to 15.00	8.00 to 15.00	6.00 to 10.00
Bride and Maid, fan and sp.	8.00 to 12.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
extra.	5.00 to 6.00	8.00 to 10.00	10.00 to 12.00	10.00 to 12.00
No. 1 and Lower gr.	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Liberty, fancy.	8.00 to 12.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Ordinary.	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00
Richmond, fancy.	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Ordinary.	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Golden Gate, fancy.	6.00 to 8.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
Ordinary.	3.00 to 4.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00
Chatenay, fancy.	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Ordinary.	6.00 to 8.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
CARNATIONS				
Fancy.	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00	4.00 to 5.00
Ordinary.	1.50 to 2.00	2.00 to 3.00	1.50 to 2.00	1.00 to 1.50
MISCELLANEOUS				
Cattleyas.	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Cypripediums.	25.00 to 30.00	25.00 to 30.00	25.00 to 30.00	25.00 to 30.00
Lily of the Valley.	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Violets.	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Tulips.	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Roman Hya. Paper White Nar.	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Daffodils; Trumpets.	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Mignonne.	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Adiantum Cuneat im.	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Crowanum.	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax.	12.50 to 15.00	15.00 to 18.00	12.00 to 15.00	15.00 to 18.00
Asparagus Plumosus, strings.	40.00 to 50.00	50.00 to 60.00	40.00 to 50.00	50.00 to 60.00
" & Sprenger, bunches.	15.00 to 20.00	20.00 to 25.00	15.00 to 20.00	20.00 to 25.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

E. A. BEAVEN

Wholesale Dealer in

SOUTHERN WILD SMILAX

and Florists' Hardy Decorative Supplies.
New crop now ready in limited quantities
EVERGREEN, ALA.

Decorating Evergreens, etc., at Wholesale

Wild Smilax, Palmetto and Cycas
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and Azalea Peats.

Nothing in Season.

KERVAN COMPANY

20 West 27th St., New York.

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Niveus, Bride, White Ivory, Cullingfordil,
Arline, Maud Dean, Mutual Friend, W.
Lincoln, Jerome Jones, J. G. Jones, Tim-
othy Eaton and Mme. Perrin at \$1.50 per
100; \$12.50 per 1000.

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Fred Lemon, Mrs. Brice, La Tuslon, Mers-
tham Yellow, Mildred Ware, Wm. Duck-
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WANTS.

GOOD MEN

When you need good men,
skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th Street, Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

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WANTED—First-class foreman for Rose Houses, experienced in American Beauty growing. Married. Salary at first \$75.00 per month with house. Address Rose House, care HORTICULTURE, Boston.

WANTED—First class store man, one who is good decorator and maker-up. Must also take care of small conservatory and do some planting in spring. State salary expected, age, etc. Address Lewis, care HORTICULTURE.

WANTED Two young rose growers for commercial place near Boston, to take charge of section each, under foreman. Write, giving references, and state wages required, to R., care HORTICULTURE, 11 Hamilton Place, Boston. It

WANTED—By all-around greenhouse man, middle age, Protestant, American, strictly temperate, trustworthy, honest, willing to work; wages, \$15 per month with board and lodging. Southern New England preferred. Address B. H., Hoar, P. O. Box 232, Fitchburg, Mass. It

GREENHOUSE HEATING AND BOILERS.

A paper read by Chas. W. Cary before the Lenox Horticultural Society.

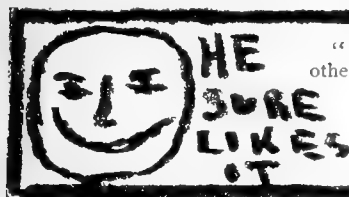
The heating of glass structures has always been and still is a matter of greatest importance to those interested in the growth of plants, fruits and flowers.

The perfect and economical heating of greenhouses is something that must be looked into very carefully, as on this depends in a great measure the success of the gardener or florist.

At a very early period in the world's history the Romans were acquainted with the method of heating rooms and buildings by means of flues. This was adopted for greenhouse purposes, there being nothing at the time that would answer so well. This system was and still is, a poor one at the best, and the objections were so numerous that those interested were on a lookout for something better. The origin of the introduction of hot water as a means of diffusing artificial heat appears to be hidden in considerable obscurity. It appears, however, to have been first used in France for hatching chickens, in the year 1777; it may have been used before that time, but there is no definite information as to its use previous to that date. It was at that time in a very crude condition, and did not give much satisfaction for a long time, and it seems to have made very little progress for about forty years. In 1817, it was introduced into England, and has kept advancing and improving in favor until at the present day it is considered far ahead of every other method of heating. Water is one of the best heat conductors known, and it will rapidly absorb the heat from the fire and convey it by means of pipes to the most distant parts of the house. Hot water therefore presents one of the best mediums known for heating purposes. It gives a uniform temperature, spreading evenly throughout the houses a mild and humid atmosphere, second to none for the growth of plants, fruits and flowers.

The motive power which produces circulation of the water is the unequal pressure on the return pipe, in consequence of the greater specific gravity of the water in the descending pipe over that in the boiler and the ascending pipe after the fire is started. Let us suppose heat be applied to a hot water boiler, a dilation of the volume of water takes place and it becomes lighter, the heated particles rising upwards through the colder ones which sink to the bottom by their greater weight, they in turn becoming heated, expand and ascend to the surface. As soon as the water in the boiler thus acquires heat, the cold water in the return pipe at the bottom of the boiler is pressed with a force equal to the difference of temperature between the ascending and descending particles. By means of this unequal pressure the water is forced to circulate through the lines of pipes, and will continue to circulate so long as the water in the return pipe is colder and therefore heavier than that which leaves the boiler through the flow pipe, and as the water in the pipes is constantly parting with its heat, both, by radiation and conduction, while that in the boiler is constantly receiving addi-

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tional heat from the fire, an equality of temperature can never occur.

In heating greenhouses with either steam or hot water the boiler is placed in the cellar or pit where the nature of the ground permits digging. Oftentimes owing to the houses being built on rock it is impossible to place the boiler in a cellar. In this case it can be placed on the floor level of the greenhouse, and it then becomes necessary to use what is termed the drop system of circulation. This term applies to hot water heating only. By drop circulation is meant where the main is carried directly from the boiler to the highest point on the job, and there relieved of air by a connection to the expansion tank. The flow main is then carried along the ridge of the house to its farthest point, and then drops or feeds into the return pipes under the benches. While this system works as well when properly installed as the usual way (that is, by having all the pipes under the benches), still wherever it is possible to do so I would recommend that a cellar be dug for the boilers and be made as deep as possible; the deeper the cellar is dug, the better will be circulation of the water; for the deeper the cellar, the more pressure there will be to the water, and the more pressure the better the circulation.

Where there is more than one house, the boiler should always be placed as near to the center of these houses as possible. This is done to insure an even distribution of the heat, and has always been found to be much more satisfactory than when the boiler is placed otherwise.

The return pipes as well as the flow pipes in heating a greenhouse are counted as radiating surface, or, I might say, all pipes, flows, branches, and returns. The expansion tank should be of sufficient size for the work: that is, one gallon capacity for every 50 square feet of heating surface; otherwise there will always be trouble by having the tank overflowing whenever you are firing hard; and if the expansion tank is not properly connected, which I have often found to be the case, this overflowing has been known to syphon all the water out of the apparatus, without the man in charge being aware of it.

Now comes the question: Which is the best pipe to use in heating a greenhouse? Many gardeners claim they get better results from wrought iron pipe than from cast iron, while many others claim just the opposite. Now, while this is a matter of opinion and a very delicate subject to dwell on, still, from my personal experience, the only advantage I can see that wrought iron pipe has over cast iron is that it is easier to install and heats up quicker than cast iron. While, on the other hand, once a cast iron pipe is heated, it will hold its heat much longer than wrought iron.

This is a great advantage in case of an accident where it is necessary to draw off the water on a wintry day. Then, again, the life of cast iron pipe in a greenhouse is more than double the life of wrought iron, unless the wrought iron pipe is painted every year. In painting pipes in greenhouses nothing but lampblack and oil should be used. Under no circumstances should anything else but this be used, as it has been proven to be injurious to plants to use anything else. One little thing, and it is a very important one, I would like to call the attention of gardeners to, and it is the necessity of opening the air valves every day. This applies to a hot water job of the latest style; that is, a galvanized tank usually placed in the potting shed in place of the old-fashioned castiron ones at the end of each coil. I often find that these vents are never opened from the day the job is erected until there is some change made in the piping. Now, while this is a very small matter, still it is a most important one, as there is a certain amount of air in water; and if these vents are not opened regularly, air will gather and impede the circulation of the water and oftentimes stop the circulation entirely. Now, while speaking of valves, I would like to impress upon all gardeners and florists the advantage of placing stop valves (by stop valves, I mean a valve for shutting off the heat) on both the flow and return pipes of every coil and also the boiler. While this adds considerable to the cost of erecting your heating plant, still in case of accident in winter it will pay for itself tenfold. Some of the advantages to be gained by doing this are as follows: We'll start at the boiler. Suppose there is only one boiler heating the plant. It gives out on a cold day if you have not got it valved; you lose all your water and heat with it; whereas if the boiler were valved it would only be necessary to close the valves, and your water being heated, would remain in the pipes and keep your houses warm until temporary or final repairs could be made. Where there is more than one boiler doing the work, the bad one could be shut off and the other one or more, as the case may be, could be kept going and keep the houses from freezing. In the course of my experience I have seen many a range of houses in danger of freezing when one boiler gave out, simply because the boilers were not valved; when the one boiler gave out, it crippled all the others, owing to having to draw the water off all the others until repairs could be made. Every main to each house, flow and return, should also be valved for similar reasons, and I would like all gardeners and florists to profit by my experiences, and whenever it is possible to do so, insist that the boiler and the flow and return main to each

house be valved, and I can safely say that if you follow this advice it will save you many a gray hair should anything happen your piping or boilers in mid-winter. Experience has taught me this lesson thoroughly.

Now another question which is often asked, and I think is a very delicate one to dwell on, because I know a great many gardeners and florists will not agree with me, is: Which is the best heat for greenhouse purposes, steam or hot water? I claim hot water has a great many advantages over steam, and is therefore the best for greenhouse purposes. Among the advantages hot water has over steam are the following: absolute safety under all possible conditions; the apparatus cannot explode, being open to the atmosphere through the expansion tank; ease of management; it is not necessary to hire an engineer to run it; anyone that can put on coal can attend to it; economical in fuel; when once heated it is not necessary to force the fire, a slow fire answering all purposes, and this will keep the water circulating through all the pipes, so long as there is any fire left, and a great saving of coal is the result.

It is noiseless in operation, there being no snapping and cracking, as is often the case with steam. There is no possible danger from fire; the pipes and boilers, being filled with water, cannot be heated to a higher degree than boiling water. It can therefore be readily seen that there is no danger to surrounding woodwork.

The heat being driven from pipes filled with water, it can be regulated to a degree. In a steam heater the temperature must be 212 degrees or nothing. The moment the water in the boiler becomes of a lower temperature there will be no heat in the pipes, notwithstanding the consumption of fuel continues. With hot water you can heat to any degree from cold water to boiling by simply regulating the fire. The only time steam is more advantageous to use than hot water is, to my mind, in a very large range of houses or in the extreme northern part of the United States or

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Canada, where the winters are very severe. The only advantage steam has in the central part of the United States is that it is cheaper at first cost to install, and it will heat the houses more quickly than hot water. For this one reason I recommend it to be used in large ranges.

The question of selecting a boiler is often a very serious problem to the gardener or florist, but there are so many different makes and styles on the market at present that it would be almost impossible to recommend any certain make, but I would advise anyone in selecting a boiler for heating purposes that it is not always safe to rely on ratings in the various boiler catalogues, for this reason: A boiler that will work up to its full rated capacity under one set of conditions may be an utter failure in another installation, although the load on the boiler under both sets of conditions may be exactly the same. This applies more particularly to boilers which have a large amount of flue surface and a long fire travel. Such boilers will only do their best where there is a very strong draft; when attached to a chimney where the draft is indifferent, they may not carry half the load assigned to them in the catalogue.

The reason for this is that every pound of coal burned requires for its perfect combustion a quantity of air, which may be stated, theoretically, as 150 cubic feet. In practice, however, the amount required for good combustion will run from 50 to 100 per cent. more than the theoretical quantity. When, however, there is an insufficient supply of air, the coal will burn away just as rapidly, but will yield much less heat than when there is a sufficient quantity of air. To put the matter plainly, each atom of carbon requires for its perfect combustion two atoms of oxygen, and when the carbon combines with this quantity of oxygen it burns to carbon dioxide and yields per pound 14,500 heat units. If, however, through an insufficient air supply there is less than two atoms of oxygen to one of carbon, the carbon will then combine with but one atom of oxygen and will burn to carbon monoxide, yielding 4,500 heat units, or less than one-third the heat given off when the combustion is perfect.

Now when a boiler with a long fire travel is attached to a chimney flue of scant size, the gases cool before en-

tering the chimney and the velocity or the rising column of air is not sufficient to pull enough air into the mass of fuel to promote good combustion.

A boiler with a direct draft would deliver the gases into the chimney at a higher temperature, which would increase the velocity of the draft and cause an increase in the flow of air through the fuel, giving better combustion and higher efficiency. This will explain the reason that in some installations a boiler will burn a large amount of coal with very low heating effect. In putting in a boiler where there is any doubt about the draft, it is always good practice to select a heater that has a short fire travel and direct heating surfaces. The draft, or rate of combustion, in this direct draft boiler can be controlled by a good cross damper in the smoke pipe, and under these conditions better fuel economy can be obtained than where an attempt is made to retain all the heat in the boiler, which is, of course, an impossibility. The value of good combustion cannot be too strongly emphasized, and without a strong draft and a hot fire box, the fuel will burn away and yield a low percentage of its heating power. Considering the fact that coal, burning to perfect combustion, will yield three times as much heat as when through lack of oxygen the combustion is at its worst, we must see the importance of selecting a boiler that will not be handicapped by having a long, narrow and tortuous fire or gas travel. To sum up, boilers with more than 50 per cent. of fire or indirect surface, should only be attached to a chimney flue of such proportions as will insure a strong draft.

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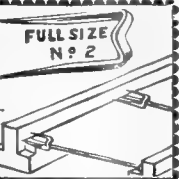
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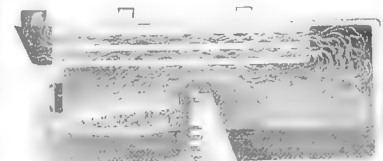
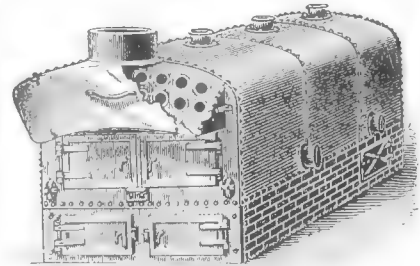


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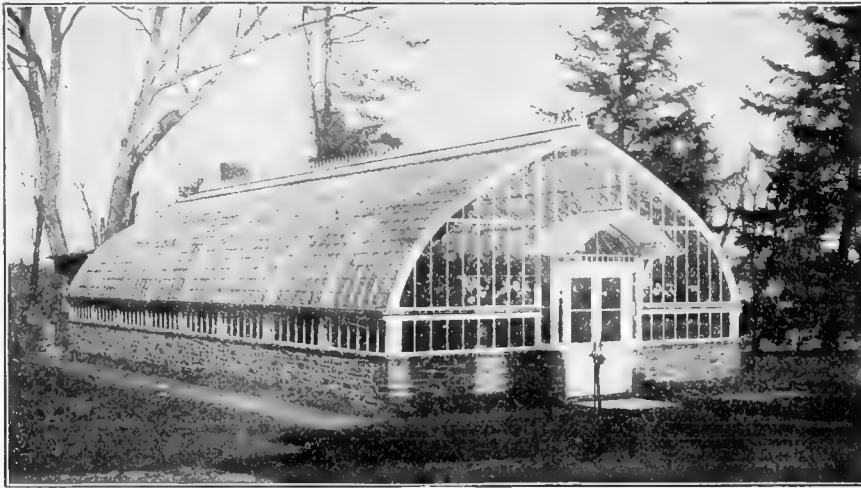
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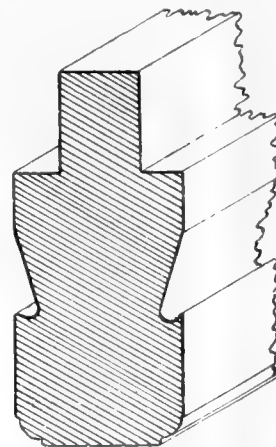
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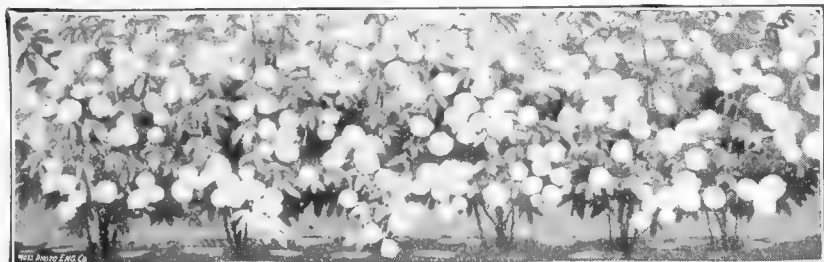
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Notes on Herbaceous Plants



CAMPANULA CARPATHICA

The natural order of Campanulaceæ contains many plants of great beauty and of great importance to those who make a specialty of hardy plants. The genus *Campanula* itself comprises many species worthy of notice. Bailey in his encyclopedia enumerates 63 species besides some varieties. In 1896 when I assisted in preparing a list of all the herbaceous plants in cultivation in the Royal Botanic Garden, Edinburgh, we had then 106 species and varieties of campanula—rather a formidable collection. Many of these, of course, were not fit subjects for the ordinary garden but in a botanic garden a collection is the primary point. I have beside me a catalogue of a reputable hardy plant grower of Europe and he offers for sale 96 species and varieties of campanula. Campanulas as a general rule are of easy culture; true, there are a few of the Alpine kinds that do not thrive under ordinary treatment, but these are not of sufficient interest to come under the scope of the present article.

C. Abietina. This lovely species from East Europe is, I believe, comparatively rare. The fronds are borne on slender stalks which rise to a height of 15 to 20 inches. They are of a beautiful blue, the centre of the flowers being almost white. It takes a moist soil but the soil must be well drained. It is of a tufted habit and may be easily increased by division or seed.

C. Allioni. A very pretty alpine species, comparatively easy to grow. It is a low growing plant seldom exceeding six inches in height. The flowers are large for the size of the plant and are borne singly. They have a purplish hue. It is a native of the Alps of Pied-

mont. It likes plenty of moisture, yet I have never found it to succeed well in the border. It does best in the rockery where it likes to get into the crevices. It may be propagated by division or by seed.

C. alpina. This is another alpine species, rare but of easy culture. It is very downy, being covered with greyish hairs. The flowers are dark blue, borne on hairy stalks about 10 inches high. It does not spread much and is best increased from seed.

C. barbata. A pretty little species from the Alps of France, commonly called the bearded harebell, owing to its having a beard at the mouth of its beautiful pale blue flowers. These are borne 3 or 5 on the stalks which rise to a height of 10 inches. It is of easy culture and delights in a moist well drained soil. There is also a white variety.

C. caespitosa. A beautiful little alpine with a delightful tufted habit, growing only a few inches high. It is a most desirable plant for border or rockery. The flowers are nodding and are pale blue and there is also a white variety. This species is also known under the names of *pumila* and *pusila* but it is distinct from either of these species. It is easily propagated by division.

C. carpathica. A native of the Carpathian mountains. One of the best dwarf border plants. The flowers are large and bell-shaped and individually are equal to the more common *C. persicifolia*. Whilst a dwarf plant, rarely exceeding 12 in. in height, it has a most robust habit. There are several varieties all worthy of cultivation. *var. alba*, *pallida*, a paler blue

variety, *turbinata*, a dwarfier and more compact grower, also a white variety of *turbinata*. It is easily increased either from seed or by division.

C. garganica. This is a rather showy species. The leaves are of a glossy green and the flowers, which are borne on branching racemes, are pale blue shading to white in the centres. It grows only to a height of 6 inches and thrives well in ordinary soil in the herbaceous border. It may be propagated by cuttings or from seed.

C. isophylla. This is a pendulous species and is more often seen in the greenhouse than in the flower garden. As a basket plant it has few equals and is most frequently used in Europe grown as a hanging plant. In the cottagers' windows of England and Scotland, it is grown in fine condition amongst the fuchsias, Aaron's beards, etc. A white variety of this species is, I think, even more valuable than the type; it seems to be a more free bloomer. Easily propagated by cuttings.

C. latifolia. In this species we have a good border plant. It is a strong grower and when well-grown reaches a height of about six feet. The flowers are large and dark blue, borne on loose graceful stems as many as 12 to 15 on the stem. It requires a good rich soil and should be lifted every two or three years and replanted in enriched soil. There is a fine white variety of the species which is also well worthy of a place in the border as is also the variety called *macrantha*. This variety is larger than *latifolia* itself and the flowers all paler blue. It is a strong, vigorous grower and responds quickly to liberal treatment in the way of manure.

C. lactiflora. An excellent hardy plant and a most vigorous grower. It has long spikes of white and blue shaded flowers, the spikes when well grown attaining frequently the height of 5 ft.

C. Medium. This is an old favorite commonly called the Canterbury Bell. It is too well known to need any description. There are many varieties and colors, both double and single. It is a biennial and seed should be sown annually to keep up a succession of flowering plants. If seed be sown in the greenhouse early it may be treated as an annual flowering the first year from seed, but they are much superior when treated as biennials. Seed may be sown either in frames or open ground. The young plants should be thinned out or transplanted, allowing them room to develop into good specimens. A light protection such as leaves or rough manure is necessary in the winter time, taking care to remove it very early in spring to prevent damping off at the crown.

C. persicifolia. One of the most valuable border plants. It is commonly called the peach-leaved campanula, owing to the leaves resembling that of the peach tree; they are, however, very much narrower in the campanula. The flowers are large and in the type blue, borne on stems rising to a height of three feet. There are several varieties of this species equally as valuable; the best are *alba*, a pure white variety; *alba-cornuta*, which has beautiful white, blue-shaded flowers; *alba-cornata* with white cup and saucer shaped flowers; *alba grandiflora*, a splendid large white variety; *alba plena*, a double white; *Moerhemi*, a semi-double white variety, and *pallida grandiflora*, a pale blue large-flowered variety. They are all easy of cultivation and thrive in any good, moist garden soil. They are easily propagated by division or seed, excepting the double varieties which must be propagated by division only. No garden should be without several of these varieties as they are indispensable in the hardy garden.

C. pyramidalis. This is commonly called the chim-

ney bellflower and for the decoration of the garden, either outdoors or in, is a plant of the highest possible merit. Whilst it is a perennial, the most vigorous and showy specimens are obtained by treating it as a biennial. For the decoration of the dwelling or the conservatory as a pot plant it is most desirable. To get the best results the plants require good treatment as to soil, etc., for which the grower will be well repaid. It is a tall and vigorous grower, sometimes reaching the height of from 6 to 7 feet. The flowers are blue, but there is also a good white variety. The flowers are produced in great numbers up the long stems and it continues to bloom for two or three months. A batch of seed should be sown every year and the young plants grown on carefully in well prepared, moist, rich soil. If induced to flower at all the first year from seed it is not until the second year that it really does well.

W. H. Waite

✓ Japanese Cypress

It is seldom that a planting of evergreens does not contain one or more of the beautiful Japanese Cypress. It is, however, not surprising, as they contain about all the desirable qualities wanted in an evergreen. The beautiful shades of green, yellow and blue in which they can be obtained, strongly recommend them, not only as specimens, but for group planting. In the latter use they are exceptionally valuable for giving attractive contrasts in color schemes. This genus is known more commonly under the botanical name of *Retinispora*; it is also listed as *Cupressus*, *Thujopsis* and *Chamaecyparis*. If asked to name the most prominent of this group I would give preference to *plumosa*, *pisifera* and *squarrosa*, including their various forms. One feature that recommends them to many is that they can be frequently sheared. This not only encourages a new growth, making the plant more compact, but permits training them into any desired shape.

Plumosa and its golden form *aurea*, are excellent for specimen planting and also for using in groups. The golden type is quite common and is largely used as a specimen plant on lawns where it shows off to good advantage, especially in June when it takes on its new growth which is a very bright yellow. This color is not as pronounced in the winter and the same can be said of all golden colored evergreens. A variety called *plumosa argentea*, is similar to the type in foliage but the ends of the branches are tipped with a silvery white color that gives it an unusual appearance.

Pisifera is of more open type than *plumosa* and resembles in foliage the *arbor-vitae*, its leaves being in flat layers. It is more graceful in outline owing to this loose habit of growth and with its golden form makes a valuable addition to the list.

A species almost as common as *plumosa* is *squarrosa*, with silvery blue foliage that is quite soft and feathery. The color is more pronounced when it makes its new growth but during the winter it changes to a bronze. A variety called *squarrosa Veitchii* is claimed by many to be distinct from the type but the difference, as far as the writer could ever see, is not very great.

A distinct variety is *filifera*, having foliage of thread-like form. These strands are sometimes twelve and fifteen inches in length and give to the plant an exceptionally graceful, drooping habit. The golden form of this type has the same pretty habit as the former and the golden color is an added attraction.

A pretty dwarf type is *ericoides*, resembling *squarrosa* but of finer foliage and more like the heath. In the winter the silver blue color changes to violet red.

One of the prettiest *retinisporas* for green foliage is *obtusa*. Its leaves are a dark green and fern-like in form. Its habit is open and it is a good strong grower of pyramidal habit. The dwarf variety *obtusa nana* and its golden form *aurea* are excellent for dwarf specimens. The Japanese have used these two dwarf types for raising in pots, having trees only a foot or so in height that are hundreds of years old. They are excellent for planting in *jardinieres* and pots. There are other varieties and forms but those mentioned are the ones commonly used.

It is a common complaint that all the varieties, especially those having soft, feathery foliage such as *squarrosa*, etc., have a tendency to die out in spots, destroying their appearance. This is true and the cause in the majority of cases is the lack of care. It is seldom thought necessary to do more than occasionally shear them and mulch as winter approaches. This is all right as far as it goes. One thing that can be noted in a plant that has been treated in this manner is that the continual shearing has induced a strong growth making the plant compact. This compactness naturally causes the inner foliage to die through a lack of light and air. The red spider finds this an excellent refuge. The collecting of this dead foliage also prevents a free circulation of air amongst the branches and saps a certain amount of vitality from the plant.

If the plants are carefully gone over in May and all the dead wood removed, it allows light and air to the centre of the plant and young growth is at once made. As an illustration of such treatment the writer recalls seeing a beautiful specimen of *R. squarrosa* standing fully thirty-five feet high and yet this variety, some contend, never reaches even a fair size. The treatment recommended can be likened to the pruning given all deciduous trees and which is known to be of great benefit. Anyone familiar with fruit raising knows the value of thinning out branches on trees that have made too strong a growth.

Narring Chandler

Some New Plants

Several remarkable new plants were exhibited before the Royal Horticultural Society at their last meeting. The most striking was a *chrysanthemum* named *Winter Cheer*. This name was aptly chosen for one could wish for nothing brighter or more cheering among winter flowers than the rich warm rose coloring of the blooms of this variety. It will most probably become a favorite late market variety for it has all the qualities that go to make a popular flower. Some colors seem to show more brightly on a dull winter's day than when the sun is shining brightly and the same may be said of the warm tints of this flower. The blooms are produced on long stout stems; the foliage is abundant and attractive. Coming so late as it does, being at its best in the middle of January, it is a worthy addition to the list of late flowering *chrysanthemums* of which we have none too many good ones. A silver medal was awarded to a small group of this new variety exhibited by Mr. J. E. Lowe. This group of flowers was one of the brightest displays in the hall on a particularly dull day

and every one agreed that *Winter Cheer* was a praiseworthy novelty and thoroughly deserved its name.

Another new plant shown on the same occasion was *Freesia Chapmanni*, raised by an enthusiastic amateur gardener, Mr. H. F. Chapman. The common *Freesia refracta* is one of our most valuable winter-flowering greenhouse plants. This new *freesia* was raised in 1904 and is the result of a cross between *Freesia refracta alba* and *Freesia aurea*; it partakes largely of the coloring of *aurea*, but is much more robust in growth and also forms larger bulbs. It is more free flowering than *refracta alba*, the average number of blooms on a stem being at least eight. The segments of the flower are primrose colored while the throat is blotched with yellow. The outside of the corolla is yellow, in fact this is the predominating color of the whole flower. The blooms are produced on long and slender stems; in fact the stems are so long that they require a good deal of support. If, however, they were used for decoration when cut this might be rather advantageous than otherwise, especially in those forms of decoration where flowers with long semi-pendant stems are necessary. The exhibitor is to be congratulated upon having raised such a distinct and beautiful flower which may in time become as valuable as *refracta* and its white variety.

The beautiful tobacco plants sent out under the name of *Nicotiana Sanderae* last year caused more discussion than any new plant sent out during recent years. Only the rose-colored variety was sent out last year but this must have had an enormous sale, for it was grown in gardens throughout the country. Many and conflicting opinions were expressed as to its merits but the majority regarded it as a valuable garden plant. This year not only the rose-colored variety, but others in purple shades and in red and white are being distributed. Before *Nicotiana Sanderae* was sent out the only tobacco grown largely in English gardens was the white-flowered, sweet-scented *officinale*; this is one of the most popular hardy plants we have and its popularity is largely due, no doubt, to its powerful fragrance at the close of day. One of the drawbacks to *Nicotiana Sanderae* was its lack of scent. The tobacco seems to have been largely worked upon by the hybridist during the last few years, for now Messrs. Sutton & Sons are offering hybrids of *officinale* that are said to be obtainable in several richly-colored varieties which also are sweetly scented. Thus, while the chief feature of the old *officinale* has not been lost, the flowers have the additional advantage of color.

I should like to draw your attention to a winter flowering cool house plant called *Moschosma riparium*; it is only within the last year or two that this has been generally grown here in English gardens and it has already found many admirers. Plants raised from cuttings, rooted in late spring, form very handsome objects by December. By judiciously stopping the shoots, the plant branches freely and in December bears its elegant arching racemes of small white flowers. The plants last in flower for quite two months, and make a most delightful display in the warm greenhouse. I know of no more effective association under glass at this time of year than a group of *Moschosma* and the rich blue flowers of *Coleus thyrsoides*, another invaluable plant for winter flowering. These plants are not generally known in the United States, they certainly deserve to be.

Henry H. Thomas

London, Eng.

Coelogyne cristata

This beautiful white flower is sometimes described as the most popular of orchids. Whether this is so or not, it certainly deserves all the popularity it enjoys. Unlike many orchids, its appearance is pleasing at all times, even when not in flower. It is very easily grown and is seldom attacked by disease or insects.

The species has several varieties, all of which are worthy of cultivation. The variety Woodlands is a very large substantial flowered variety, but is so rare that a very small piece is considered quite a treasure. Chatsworthii, which is shown in the accompanying picture, is also a fine variety and has larger flowers and pseudo-bulbs than the type. Maxima is simply a large form of cristata. Lemoiniana has a yellow fringed lip, and hololeuca or alba is pure white and looser in habit than cristata.

In summer they should have a cool airy house or frame, the latter preferred providing the plants are raised from the ground and air admitted at the ground level, insuring a circulation of air under and around the plants. They should have a light shade in bright weather, but should have all the diffused light possible. Overhead syringing and

plenty of water while growing and dilute stimulants should be given after root action has commenced.

About September full sunshine should be given with the exception of a few hours in the middle of very bright days, as at this time the pseudo-bulbs begin to mature and the number and size of the flower spikes will be in direct ratio to the amount of light given. This is the most important point in the culture of coelogyne, espe-

cially if the plants are highly fed, as the larger the pseudo-bulb obtained the greater amount of light will be necessary to mature it.

An ordinary greenhouse with a minimum temperature of 50 degrees F., fairly light and airy, will be favorable winter quarters. Just enough water should be given while the plants are in flower to prevent shrivelling. Baskets are more convenient than pans, as the beauty of the flowers is shown to best advantage if the baskets are hung vertically. Best results are obtained from shallow baskets as root aeration is very important.

A suitable compost and a better one than that generally recommended is fibrous loam and sun-dried cow manure as a lower layer, the upper layer to consist of

fibrous loam and fern fibre in equal quantities. They should not be moved or repotted until it is absolutely necessary, as they are somewhat impatient of disturbance and do not flower well the first year after repotting.

If it is desired to hold the flowers back, the retarding process should not commence until the flower spikes appear, as previous to that time it would not be safe to assume that the pseudo-bulb were

mature. In a favorable, cool house the flowers can be held until Easter and as an Easter flower they should be very popular.



COELOGYNE CRISTATA, CHATSWORTH VAR.

James Hutchison

We are compelled to announce, with much regret, that our colored plate of sweet pea did not reach us in time for insertion in this number and its issue is unavoidably postponed until next week.

THE LONGWORTH-ROOSEVELT BRIDAL BOUQUET.



HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

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WM. J. STEWART, Editor and Manager.

**Making good
our promise**

The professional paper or magazine finds its best work in promoting the development, growth and material and intellectual advancement of those in whose behalf it exists. The attitude of the more progressive and intelligent element in any profession towards such a periodical is the best index of its real worth. Reasoning from this standpoint *HORTICULTURE* has reason for rejoicing for, if a willingness to help in the work is any evidence of appreciation and approval, then it has all this in the fullest degree. Men of the highest standing in the profession, highest because of their practical knowledge and intellectual attainments, are found among its regular contributors and more are coming.

**The axe following
the moth pests**

Thousands of cords of wood are being cut in eastern Massachusetts this winter because of the moth pests and the law making destruction of the nests compulsory. In many instances the cost of cleaning thickly wooded tracts which are badly infested would be more than the market value of the land and the destruction of the trees seems the only alternative. Where the forest is only thinned and not completely cleared off the cutting may, in the end, be an advantage but, in any event, it is likely to materially change the character of the New England landscape. This is especially true of cultivated tracts where the picturesque old apple trees which have been such a charming feature of the aspect in spring blossoming time are being demolished on all sides because of the brown-tail invasion.

**Antagonizing the
Agricultural
College**

Again the agitation by the farmers of Amherst, Mass., and vicinity against the sale of produce by the Agricultural College. This time it takes the form of a concerted opposition to the grant by the State Legislature of a

sum of money asked for by the college authorities for needed improvements in buildings and outfit. A legislative committee has been appointed to listen to remonstrants and to make an investigation of the matter. It is, perhaps, preferable that we should await the report of this committee before expressing an opinion regarding the competition in the disposal of produce by the college. But we will venture to say that those interested can safely leave this question to the fairness and sense of justice of those in authority and that retaliation in the form of opposition to a needed appropriation for an institution which has done so much for the soil-tiller will not be looked upon by right-minded and impartial people as a justifiable remedy for either real or imaginary grievances.

**Excluding worthless
varieties from the
exhibition table**

It is very evident in some of the recent correspondence on this subject that the writers are unmindful of the essential dissimilarity in purpose and scope between an exhibition intended to attract and impress the public by the excellence of its displays and a trade show, such as we take the exhibition of the American Carnation Society to be, where the primary object is the comparison of products from a distinctly technical standpoint. To attain the information sought in the latter, the assembling of results of varying processes, whether they be good, bad, or indifferent, is an indispensable condition and the more complete the collection the greater its value to the exhibitor and the visitor, from an educational standpoint. It seems to us that the grower, visiting such an exhibition, contemplating the selection of varieties to be grown for the coming season, would be inclined to demand that a variety seeking recognition should be placed on the tables for his personal inspection and comparison and the greater its inferiority the more important the opportunity. If it is deemed unwise to permit the public to see these things then exclude the public or, after the judging has been completed, make a public show department in which winning exhibits only are set forth. It is proper that the giving of awards be carefully hedged about but the privileges of entry should have as few restrictions as possible. At least this is as it appears to us.

Are You a Reader?

The direct gain from reading one item or one advertisement may more than balance the dollar you pay for a year's subscription to *HORTICULTURE*.

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One good customer gained will offset all its costs. And *HORTICULTURE*'s readers are of the class that make

Good Customers

AFTER ADJOURNMENT.

We note with delight the advent of our friend Maurice Fuld into the literary arena. He is represented in the March number of *Suburban Life* by three contributions on seed and bulb planting. In the same number W. N. Craig has an excellent article on "A Gay Garden from Frost to Frost."

We learn from the *Wilmington, Del., Journal* that an esteemed florist of that city has produced a white carnation with pink stripes for which he has refused \$10,000. People shouldn't offer these paltry sums to florists who produce carnations unless they wish to be contemptuously spurned. "Such a headache!"

We learn from one daily paper that Miss Alice's bridal bouquet was comprised of *Phalæopsis amabilis* and furnished by a certain florist; from another daily paper that the bouquet in question was made of *Cœlogyne cristata* furnished by another florist. We take pleasure, however, in presenting a picture of the "real thing" with an account thereof, in this issue.

A valued subscriber in forwarding his dollar for another year, expresses dissatisfaction because we do not record the changing of gardeners from place to place, so that he "can keep up with his old friends." We confess the undertaking is too big for us. Still, we'll do the best we can, and if our gardener friends will kindly let us know when they or their friends make a change we'll gladly print the news.

At a recent meeting of the Massachusetts Horticultural Society the "Fruits of New England" was the subject of discussion. Among other things the acknowledgment was made that there are but half a dozen varieties of pears which can be grown profitably in New England. This is refreshing encouragement as, up to the present time, the prize schedule has been loaded down for 10, these many years, with twenty or more varieties of pears, each drawing out premiums to the amount of from twelve to twenty dollars annually. The half dozen varieties now approved are not stated but probably every one of them has been in the market since before most of us were born. There seems to be a splendid opportunity now for the fruit growers to turn to and produce new varieties of especial excellence for this section. What was possible for their forefathers should not be impossible for them. If they have any desire to see their specialty resume its old time pre-eminence in the society and the community that is the only course for them to pursue.

ALICE ROOSEVELT'S BRIDAL BOUQUET.

This beautiful bouquet, which we illustrate on another page, was made of the choicest orchids with a fringe of *Adiantum Farleyense*. The most delicate shades of *Cattleya Trianae* and *Cymbidium eburneum* were used, the shower effect being carried out with the sprays of the pure white *Cœlogyne cristata*. The *cattleyas* were grown in Washington, D. C., by

the orchid specialist, George Field. The bouquet was designed and made by Z. D. Blackistone.

WHAT THEY SAY OF US.

"The love of praise, however concealed by art,
Reigns more or less, and glows in every heart."

The last few issues of *HORTICULTURE* have been corkers.—A. R. L.

Afraid you will charge more by and by, so now extend our subscription for four years.—O. C.

Please send *HORTICULTURE* on. Will pay for it. Like it very much. Gets better all the time.—S. J.

Congratulations on year's work. May *HORTICULTURE* live long and prosper.
A SUBSCRIBER.

Please find enclosed \$1.00 for my subscription to your paper. It has come to stay, and I wish you every success.—J. G.

Inclosed please find check for three dollars (\$3.00) for which send *HORTICULTURE* for three years from date, January 1, 1906.—W. A.

I think your magazine a grand achievement. Would not be without it. Enclosed please find one dollar for renewal of my subscription.—B. O. C.

I take the pleasure of congratulating you on the able manner *HORTICULTURE* is conducted and wish you every success for the future.—H. T.

Please find inclosed one dollar for renewal of my subscription to your paper for 1906. I like it very much and hope you will continue to make it improve week by week.—J. H. O.

We are anxious to assure you that your magazine is greatly valued in this office for its very interesting contents, and we wish to congratulate you upon the high standard attained.—K. O.

Inclosed find postoffice order for \$1 for another year's subscription for *HORTICULTURE*. I think it is a very valuable paper to the trade and predict a great future for it.—W. S.

I take this opportunity to say that I think your paper the best of them all, and I look forward to the time when I will be settled at a permanent address and can receive it regularly again.—P. A. R.

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Gentlemen:—Can you supply me with a complete file of *Horticulture* up to date? Your paper grows more and more valuable and very rapidly. I want to bind and keep the issues intact.
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Editor of *HORTICULTURE*—Inclosed please find \$1.00 for *HORTICULTURE* for 1906. I think it improves with age like good old wine, and trust its future will be bright and prosperous and a help to all interested in the gardening world.

Yours truly,

W. S.

SHORT NOTES FROM ABROAD.

The next annual congress and exhibition of the French National Chrysanthemum Society will be held in November at the old town of Caen in Normandy. It is a part of this society's program to hold its annual gathering in a different town every year.

"Le Chrysanthème," the official organ of the French N. C. S., is supplied monthly to its members and usually contains much interesting matter to those who worship at the shrine of the "Queen of Autumn." The last number to hand contains a portrait group of most of the members of the jury at the recent Paris chrysanthemum show and many members of the society. Among the celebrities we notice Rozain-Boucharlat of Lyons Choulet; Maxime de la Rocheterie, the president of the society; Charles Baltet of Troyes; Philippe Rivvire, the secretary; Geo. Bruant of Poitiers; Ernest Calvat, Rosette; Closion of Liege; Colonel Labouchere of Caen.

The English National Chrysanthemum Society has decided to adopt as its standard for color description the repertoire des couleurs recently published by the French sister society. A copy of the work has therefore been handed over to the chairman of the floral committee.

Country Life is one of those excellent English art publications that has a deservedly large circulation. It deals as its title implies with everything more or less connected with the country. Gardens, gentlemen's homes, fishing and sport of all kinds, country cottages and rural views in every conceivable manner are more or less elaborately and artistically dealt with in *Country Life*. A similar work to be published bi-monthly will shortly appear in Paris. It is to be entitled *La vie a la Campagne*, and will be brought out by the well-known French firm of Hachette & Co. Monsieur Albert Maumene, formerly sub-editor of *Le Jardin*, will have the editorial supervision of the new journal.

The National Horticultural Society of France will hold its spring show in Paris on the 19th to the 27th of May next. In connection therewith a Congress will be held on May 21st, at which various questions will be discussed, such as apple culture for table, researches on the coloring matter of flowers, variation in vegetables, cryptogamic diseases that attack ornamental plants, best means to preserve bulbs during the resting period, practical culture of new vegetables, making of small rock gardens and a selection of hardy plants for same, etc., etc.

The next great Quinquennial International Show at Ghent will coincide with the centenary of the Royal Horticultural and Botanical Society. We may reasonably expect this to be the grandest show ever held in this old Belgian town. The list of prizes and schedules is already in print and comprises a large number of classes. The date fixed is 25th of April to the 3rd of May, 1908.

C. HARMAN PAYNE.

NEWS OF THE CLUBS AND SOCIETIES.

NORTH SHORE HORTICULTURAL SOCIETY BANQUET.

It was a great turnout at Manchester-by-the-Sea on the evening of February 15. The youth and beauty, the talent and experience of the old north shore, together with twenty visitors from Boston—a happy throng of two hundred and fifty—sat down to the annual spread of this wide-awake society. The tables were profusely decked with flowers and the platform was banked with the choicest products of the greenhouse.

After the excellent repast had been put out of sight President James Macgregor called to order and introduced Rev. W. F. Powers who made a scholarly address on the mysteries of plant life, the noble part played by sentiment in human life and the civilizing influences of the gardeners' occupation.

James B. Dow then gave a brief history of the society which, although but five years old, already numbers 160 members. Twenty-four practical subjects had been discussed at the meetings of the past year and the organization was making its influence felt throughout the community.

Rev. E. H. Brewster spoke of the beauties of Manchester and the interest her people take in the development of horticulture. He elicited a storm of applause when he asserted that the attributes of the true gardener are a love for the beautiful as exemplified in ladies and flowers, love for the mysterious and love for the good.

James Farquhar was next called upon to tell some of his experiences in a recent visit to Porto Rico, which he did in most entertaining style. He spoke of the equable temperature of the island, its wealth of tropical vegetation, its delightful fruits, its fertile soil, its simple people, and claimed that it is destined to become the winter home of the affluent American citizen.

J. W. Duncan spoke on behalf of the Boston visitors telling appreciatively of the elegant products of the expert gardeners of Manchester, Beverly, Prides Crossing and vicinity that the visitors had been privileged to see during the day.

James Wheeler, president of the Gardeners' and Florists' Club of Boston, also spoke in a similar vein, congratulating the sister society on the grand work it has done and is doing and referring eloquently to the natural beauty and inspiring surroundings of Manchester and the hospitality of the gardeners.

Between the speeches an excellent vocal and instrumental program was rendered by Miss Carolyn E. Allen, Rev. C. A. Lincoln, Miss Harriett Brewster, Mr. Fish, Allen S. Peabody and the High School orchestra. The hall was then cleared for dancing, and under the direction of L. W. Carter tripped "the light fantastic" till the close.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

There must have been close to one hundred and fifty members present at the club meeting in Horticultural Hall on Tuesday evening, February 20. The special attraction was a paper by Robert Cameron of the Harvard Botanic Garden, giving some of his impressions of the West Indies, he having recently returned from quite an extended botanizing tour of that region. He gave a most interesting synopsis of the floricultural wealth he had been privileged to see, the beauties of the tropical jungle which are within less than a week's travel from the frozen regions of the north. The climate he had found neither hot nor unhealthy and the inhabitants are in some respects more civilized than our own people, there are no fierce wild animals and some small insects are the only troublesome thing. He told graphically of Trinidad, its Botanical Garden, its agricultural and horticultural industries, Granada and its fruits, Venezuela, Panama and Colon, Jamaica, which he characterized as the most delightful of the West India islands, and Cuba with its fertile expanses and splendid openings for ambitious palm growers or market gardeners. After the address he was plied with many questions which elicited the statement that the so-called double flowered poinsettia was the most impressive object in the floral line that he had seen. He recommended it strongly for greenhouse culture in preference to the common form. He had visited R. M. Grey who is established in Cuba as representing Mr. Ames in some extensive agricultural and botanical research and experimenting. James Farquhar, being called upon to answer some queries regarding Porto Rico, spoke of it as pre-eminent among the West Indies in its fruit products which brought Mr. Cameron to the floor again in defense of Cuba and Jamaica and much merriment was created by the witty sallies that for a time passed between these gentlemen.

Among the items of the evening were the admission of twelve new members, a song by Mr. Cannell, an abortive attempt by George M. Anderson to have the vote passed at the last meeting admitting ladies to membership, declared illegal and the usual recess lunch. On the exhibition table were a fine plant of *Dendrobium nobile* from Robert Marshall, carnation Red Warrior from George B. Anderson, samples of fine tea roses grafted on Mannetti from the Montrose Greenhouses, a purplish sport of carnation Harlowarden from Mrs. J. P. Snow, a red seedling carnation from John Murchie of Sharon, Pa., which arrived in sleepy condition and a specimen of *Nephrolepis Whitmanii* from H. H. Barrows & Son, which Secretary Craig pronounced the best fern, without exception, in existence today. A box of new sweet peas expected from A. C. Zvolanek failed to arrive. Wm. Sim told of a recent visit to Mr. Zvolanek's and the many promising new varieties to be seen there.

NATIONAL COUNCIL OF HORTICULTURE.

The second called meeting of the National Council of Horticulture convened at the Auditorium Annex, Chicago, February 5, 1906. There were present, Prof. W. W. Tracy, of Washington, D. C.; Professor S. B. Green, of Minnesota; C. E. Kendel, of Cleveland, Ohio; L. A. Goodman, of Kansas City; H. C. Irish, of St. Louis; C. C. Simmons, P. J. Hauswirth and J. C. Vaughan. Telegrams or letters were received from the following: J. H. McFarland, Prof. E. J. Wickson, Prof. L. R. Taft, Prof. L. H. Bailey, Prof. John Craig, Philip Breitmeyer and J. H. Dayton.

The plan outlined at Cleveland for securing funds from florists, nurserymen and seedmen showed \$210 in the treasury for promotion of trial work of the Bureau of Publicity. The methods for carrying out the plans arranged at Cleveland were discussed and definite propositions read by D. J. Thomas and J. H. Burdette of Chicago, giving their views as to the best methods of securing high class newspaper publicity for the Council. Subjects for preliminary articles were discussed, and many suggestions given to the secretary, with instruction to take up the matter with Messrs. Thomas and Burdette and arrange for sending out the preliminary articles to such an extent as the funds in hand would provide for.

It was conceded that material on general subjects coming from a national body covering broad lines and from all parts of the country and bearing no evidence of commercialism, would be eagerly accepted through our own or other press bureaus by hundreds or even thousands of the best newspapers in all part of the country. It is believed that this part of the Council work can be placed on a self-supporting basis.

There being a vacancy of one member in the delegates at large of the National Council, Professor S. A. Beach of the Iowa State College of Agriculture was appointed.

It was voted to invite the Secretary of Agriculture to appoint two delegates from the United States Department of Agriculture to become a part of the Council on a similar basis as are the delegates from the national societies of the florists, nurserymen, and seedmen.

Warren H. Manning, landscape designer of the Jamestown Exposition, asked for the advice and assistance of the Council in his work at the Exposition, and asked the Council to suggest names for committees to aid him on the following sections of the Exposition work in horticulture: Classification, Awards, Standards of Excellence. Call for National Congress, Special Events and Programs. These appointments were made as requested, and the secretary instructed to submit same to Mr. Manning for his approval.

H. C. IRISH, Secretary.

NEWPORT HORTICULTURAL SOCIETY.

A regular meeting of the Newport Horticultural Society was held Tuesday evening last, President Alex. MacLellan in the chair. There was a large attendance, and much interest was taken in the proceedings. The secretary read a communication from Messrs. Schlegel & Fottler of Boston, offering \$25 in gold in premiums for a collection of annuals and a collection of vegetables to be competed for at the August exhibition. The offer was thankfully accepted. The premium offered for annuals was the means of starting a most interesting discussion on the term annuals as applied to plants, Joseph Gibson desiring a rule to be made for the guidance of both exhibitors and judges, to save the former from being disqualified, and the latter from the disagreeable duty of disqualifying exhibits having among them perennials.

The discussion disclosed the fact that even good gardeners are divided as to what constitutes an annual, some claiming that only such things as are grown from seed and mature and die the same year, are annuals, while others claimed that climate influenced plants in such a way that many things, such as salvias, are commonly termed annuals, although they by no means end their existence within the space of one year. The question was finally disposed of by referring it to the Executive Committee.

Mr. MacLellan was sent as a delegate to Providence to represent the society at a meeting of the society for rural improvement.

NEWPORT NOTES

The unusually mild winter had the effect of starting grape vines under glass to break before the regular time this year, some gardeners being compelled to water the borders and keep the vines going ahead fully three weeks earlier than usual. Peaches and nectarines are in much the same condition.

James McLeish is turning a gros. Colman house into a nectarine house. Colmans were a financial failure with him, while on the other hand he finds that nectarines are invariably a paying crop.

Outsiders are inquiring about the Newport Pink Hollyhock, asking if there is any difference between it and the regular good double pink hollyhock. There is this difference: That the best double pink hollyhock is the Newport pink, and while it is by no means an exclusive Newport thing now, still the pink grown here and so much admired was not seen elsewhere until quite recently.

Notwithstanding that much preparatory work was accomplished all through this winter that usually would have been put off until spring, there is unusual activity apparent in gardening matters which promises to make a lively spring with plenty for all to do.

MORRIS CO. (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

The second regular meeting of the year was held at the old stand in Madison, Feb. 14. C. H. Totty's paper on "The New Chrysanthemums" was the principal event. After it was read Mr. Totty invited discussion and criticism. Messrs. Herrington, Heere-

mans and Vince threshed it around awhile, but it came out unscathed.

Six new members were elected: Harold Vyse, Henry Heeremans, William Inglis, Thomas Stokes, Herbert Entwistle and Lincoln Pierson. More new members, more new ideas, more progress.

It was decided to make the next meeting a carnation night, and Mr. Vince has promised a paper on the carnation. Also to hold the fall show on Nov. 1 and 2. This will give our boys a chance to get in on the ground floor, and outsiders as well, for we like competition at that.

E. REAGAN.

LENOX HORTICULTURAL SOCIETY.

The twelfth annual banquet of this society was given in Town hall, February 17. Seventy-six sat down to an excellent repast, at tables decorated with cut flowers, cyclamens and well-colored plants of *Pandanus Veitchii* and *dracenas*. President Carlquist introduced A. H. Wingett as toastmaster, who filled the position in his usual affable manner. The toasts and those who responded, are as follows: "The Horticultural Society," E. J. Norman, first president, and E. Jenkins, president in 1904; "The Town of Lenox," R. Stanley, chairman of board of selectmen; "Florists," F. Howard, Pittsfield; "Cottagers," Eustaec Jacques; "The Press," W. Harger; "The Ladies," J. Johnson; "Our Toastmaster," President Carlquist. A. McConnachie, C. R. Russell, H. Jack and Thomas Page entertained the company between the speeches. Letters were read from the judges for the past year, whose absence was regretted by all. Preceding the supper a brief business session was held.

The next meeting, March 3, is carnation night. The society respectfully solicits some of the new varieties for exhibition, for the benefit of those who were unable to attend the Boston exhibition. Kindly forward same to George Foulsham, Secretary, Lenox, Mass., not later than Saturday, March 3d.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.**Department of Plant Registration.**

Hoopes, Brother & Thomas, West Chester, Pa., submit for registration, two new roses named and described as follows:

Christine Wright (*Wichuraiana* X *Mme. Caroline Testout*). Hardy climber. Flowers pink, almost double, 4 inches in diameter, borne in clusters. Foliage large and thick.

Columbia (*Wichuraiana* X *Mme. Caroline Testout*). Hardy climber. Flowers salmon pink, semi-double, borne singly on long stems, 4 to 5 inches in diameter, sweet-scented. Foliage shiny.

WILLIAM J. STEWART, Sec.

OMAHA FLORISTS' CLUB.

At the last meeting it was decided to hold the flower show on November 12-17, and to offer \$5000 in premiums. About one-half of this amount has already been subscribed.

W. J. & M. S. Vesey, of Ft. Wayne, Ind., displayed a fine vase of variegated carnations.

DES MOINES FLORISTS' CLUB.

The meeting on February 6 at John Lambert's greenhouses was well attended, due perhaps to the fact that secretary notified all members by postcard at the last minute. Mr. F. Marshall brought a handsome bunch of his seedling carnations among which two dark crimsons, a white and two reds deserve special mention. Messrs. Peter Lambert, F. Stevens and Charles McAniff were appointed a committee to visit Mr. Marshall's greenhouses, and they report that the crimsons are clean, robust plants, free and continuous bloomers. This can be said of several other varieties in his house.

Wesley Greene was present and spoke of the plans of the State Fair Association for the furtherance of horticulture at the State fair this fall. He extended an invitation to the club to hold its next meeting on February 20 at the State Capitol, which was accepted.

Charles Simons was requested to prepare a paper on Methods of germinating small seeds to be read at the next meeting, and Frank Stevens a paper on Growing Boston ferns for the first meeting in March.

A box of Glendale carnations from Mrs. Vesey of Ft. Wayne, evidently intended for the club meeting, came a day too late, but they were exhibited at the Iowa Seed Co.'s store and the club members were notified. It is a grand variety, and will be reported on at the next meeting.

WILLIAM TRILLOW.

ROYAL HORTICULTURAL SOCIETY SCHEDULE.

The book of arrangements of the Royal Horticultural Society of London, is just to hand. Among the most important we notice during 1906 the following: 13 February, annual general meeting; 22, 23 and 24 March, show of Colonial-grown fruit and vegetables; 17 April, auricula and primula show; 29, 30 and 31 May, the R. H. S. great flower show in the Temple Gardens; 6 and 7 June, show of Colonial-grown fruits and vegetables; 5 July, Sweet Pea Society show; 10 and 11 July, R. H. S. great summer show at Holland House, Kensington; 30 and 31 July, 1, 2 and 3 August, International conference on plant breeding; 19 September, National Rose Society show; 16 and 17 October, R. H. S. 13th annual show of British-grown fruits; 4 and 5 December, show of Colonial-grown fruits and vegetables (bottled and preserved); 13 and 14 December, National Potato Society show. Most of these shows will be held in the Society's hall at Westminster.

ELBERON HORTICULTURAL SOCIETY.

A meeting of the Elberon, N. J., Horticultural Society was held on Feb. 19th. There was a large attendance. The principal business of the evening was the discussion of the schedule for the flower show, to be held during the coming summer.

W. F. Ross, representing F. R. Pierson Co., Tarrytown, was present and exhibited a splendid vase of their new carnation Winsor, which was admired by all, and a certificate of merit was awarded.

LIBRARY NOTES

A few months ago I contributed an article bearing the above title to HORTICULTURE, and in order to keep the book-loving American horticulturist fully posted up to date in matters of bibliographical interest, it may be useful and instructive to place on record in these columns some of the most important facts that have occurred since.

Among the recent additions to art literature must be mentioned by way of special commendation, "The Italian Lakes," painted by Ella Du Cane, and described by Richard Bagot. Although not strictly a gardening book yet it contains so many charming little reproductions of water color sketches of Italian lake gardens, that it is well worthy of a place on the bookshelves of every literary gardener, and especially those who have wandered through the gardens of Northern Italy in and around the district of Lakes Como and Maggiore. Less than two years ago the writer of the present article after visiting the great International Horticultural Show at Turin, the gardens of Stupinigi, and the horticultural sights of the vicinity of Milan found himself exploring amongst other famous gardens the world-renowned island terraced garden of Isola Bella. The work now under notice brings back vivid memories of a pleasant tour in the sunny land of Italy, in a way that couldn't be otherwise provided. The printing and binding of "The Italian Lakes" are executed in the best style, but we are chiefly concerned at present with the little horticultural gems that the book contains. In all there are 68 colored reproductions of Miss Ella du Cane's work, and the titles of a few will amply justify our commendation from a horticulturist's point of view. "A Garden at Cadenabbia" which depicts flowers in the foreground and a vista across Lake Como to the mountains beyond. "Azaleas" is a bright realistic view of these showy flowers as we have often seen them on the slopes of an Italian lake garden. "Pallanza from Isola Bella" gives a typical view from one of the Terraces of that island garden. "Oleanders" also very bright and effective. "A villa garden Lago d'Orta," and "Terrace Isola Bella" appeal very strongly to those who have visited the spot, the latter picture showing the stonework and balustrading of the terrace with flower pots arranged at intervals. Among the many other peculiarly fascinating little bits we can only briefly cite: "A Garden," "Hydrangeas Isola Bella," "Oleanders Lago d'Orta," "A Terrace Wall, Lago Maggiore," "A doorway at Varenna," in which crimson pelargoniums in pots are most vividly represented. "A group of Yuccas" all in full flower by the edge of the lake, "Villa Carlotta" a lovely little bit of color bordering a gravel path leading down to the lake, and the mountains in the far distance. Among others "Roses Villa Carlotta," "In the garden of the Villa Arconati," "In the Shadow of the Terrace," "A Balcony," "A garden at Baveno," "Isola Pescatori," with Yuccas in the foreground, and "In the garden Isola Bella" must conclude our very superficial notice of a most attractive work. Messrs. A.

& C. Black of London are the publishers.

From the same firm comes another beautifully executed work of similar style. This is an art edition of "The Garden That I Love," by Alfred Austin. The illustrations in this are reproductions from water color sketches by George S. Elgood, who, it will be remembered, was the artist that illustrated that handsome folio, "Some English Gardens." The frontispiece bears the same title as the book, it is a delightful view of a gabled country manor, house ivy-clad and partly screened by a gorgeous border filled with flowering plants in great profusion, a dear old home where peace and happiness must surely reign supreme. We specially admire "Apple Blossom" and "The Seat Beneath the Oak," for their suggestion of calm repose. "Orange Lily and Monkshood" is a nice little picture and of similar character. "The careless grace of Autumn," "Larkspur and Meadowrue" needs no description for its title tells its tale. The same may be said of "Crimson Rambler," "Peonies and Iris" which is very bright and telling, "Torch Lily" and "Evening Primrose." There are others but we must refer the reader to the book itself for further information.

The writer is indebted to M. Philippe de Vilmorin for a copy of his recent work the "Hortus Vilmorinianus" a bulky volume of nearly 400 pages containing an enumeration of the ligneous and herbaceous plants cultivated in the garden of M. Ph. de Vilmorin and in the grounds of his firm Messrs. Vilmorin, Andrieux & Co. at Verrieres-le-Buisson. There is a preface by Professor Ch. Flahault and a large number of illustrations in black and white adorn the work which is executed in first class style. An index of the genera is given at the end.

In periodical literature relating to the gardening art the post of honor must be accorded to the recently issued volume of the Journal of the Royal Horticultural Society of London. This contains about 500 pages and although only Part 4 of Vol. XXIX, comprises an immense amount of scientific and practical knowledge contributed by various fellows of the Society. Even a brief epitome of its contents is practically impossible in a series of notes such as these.

Another work that reaches us with unfailing regularity is the Journal of the Japanese Horticultural Society. In spite of the events in the far east the society has made great improvements of late in this publication and the numbers issued during the past year have been characterized by a new departure in artistic design and get-up generally. It is unfortunate that it is printed wholly in the Japanese vernacular with the exception of an index which is in French, thus giving the recipient an opportunity of getting an article translated if he so desires. The last number to hand contains several quaintly executed illustrations some of which remind us of the style of a

French artist, Grevin, popular in Paris a quarter of a century ago. Many of the articles in the issue before us are about the chrysanthemum.

From a purely bibliographical standpoint the Journal of the National Horticultural Society of France for the month of November last must unquestionably be the subject of a short mention. In it M. George Gibault, the librarian of the society, contributes an article entitled, "Ancient Horticultural Bibliography and Literature," a work of supreme interest to the literary gardener or horticultural book collector. M. Gibault's researches cover 32 pages of the Journal and are illustrated with reproductions of the title pages of some of the rare books, mostly French, with which he deals. His work is divided into headings, such as the books of antiquity and the middle ages, 16th century iconographies, 17th and 18th century iconographies, Maison's Rustiques general treatises, works on fruit culture, works on floriculture and kitchen gardens, works on the art of gardens, old botanical and horticultural catalogues, poetry and horticultural travels. It is, in fact, one of the most comprehensive and exhaustive accounts of garden bibliography of its kind we know of, and of infinite value not only to the student of the history and literature of the garden craft, but also to the mere book collector.

Periodical literature has lost one of its organs. "Flora and Sylva" has ceased to appear as a monthly publication, in spite of its excellence and great cost incurred in its production. A new one of far less pretentious style has, however, appeared this month, called "The Garden Album and Review," edited by John Weathers. This is described as an illustrated monthly magazine of horticulture, and each number besides containing 16 pages of literary matter, will have four colored plates. It is a work not wholly unlike the old "Florist and Pomologist" in appearance.

We have several promises of new undertakings, one of which, "The Art of Italian Garden Design," by Mr. Migo Triggs, will be a handsome and costly book executed in high-class style. From Paris we learn that a new bi-monthly, entitled "La Vie a la Campagne," edited by M. Albert Mau-mene, the famous French writer on the floral art, will shortly be published and be devoted to gardening and other rural subjects. Its English prototype, "Country Life," is already well known as a finely executed work on such matters as come within the scope of its title.

The Book of Cut Flowers, by R. P. Brotherston. (London, T. N. Foulis). There have been in times past a few little treatises dealing with the art of floral arrangement, but the work now under notice is beyond dispute the most important and the most comprehensive in English that we know of. It is a volume of close on 300 pages, bound in cloth covers, very well printed in clear type and illustrated very

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freely, the majority of the pictures being photogravure full paged plates of artistically arranged floral groups in vases, the style of which reminds us somewhat of that American work, "The Flower Beautiful," by Clarence Moores Weed. The book is divided into two parts and has the addition of several appendices. The first part contains ten chapters, the subjects of which are roughly outlined as follows: Historical retrospect, relative value of flowers, fashion, national tastes, selection of colors, scent, form, buds, foliage, selection of material, when to gather flowers, how to gather, packing flowers, decoration of apartments, receptacles, floral aids, methods of arranging, contrasts, harmonies, etc., table decorations, church decorations, personal adornment, ball decorations, decking graves.

In the second part, which is comprised of eight chapters, there are such things dealt with as annuals and biennials, hardy perennials, herbaceous fibrous rooted plants, tender exotics, shrubs, trees, everlasting flowers, grasses, ferns, orchids and the like. The author also deals in a measure with the art of floral arrangement as practised in Japan and gives a final chapter on the literature dealing with floral decorations, mention being made of books not only in English but also in French and German.

A book of this kind which the author says on his title page is a complete guide to the preparing, arranging and preserving of flowers for decorative purposes is by no means a superfluity for the way in which some exhibitors at English shows dump their flowers into vases, baskets and epergnes and

think they have arranged them artistically is notorious to any one who has seen the same kind of thing done in France. But beside exhibitors at shows there is much to be learned from the book of Cut Flowers by those whose duty and pleasure it is to arrange flowers in the home. Various forms of receptacles are shown as being suitable for certain purposes and the finished picture in photogravure from a real arrangement of natural flowers is one of the many object lessons furnished by this excellent treatise.

The Sweet Pea Annual, 1906. (Horace I. Wright, Hon. Sec. National Sweet Pea Society, London.) The sweet pea is perhaps no less appreciated in America than in England and it may therefore be useful to draw attention in the columns of HORTICULTURE to this new publication which very far surpasses the issue of last year. For the modest sum of one shilling it is about as good value for the money as anything of the kind we know and to a sweet pea enthusiast must have a special charm. Well printed, freely illustrated with the portraits of celebrities, with views of sweet peas growing at Wem and in the States, and also with representations of some of the leading silver cups offered for prizes at the National Sweet Pea Society's shows. It contains 80 pages of literary matter bound in stiff covers and forms a most attractive little volume. The frontispiece is a portrait of Mr. Alfred Watkins, the present president of the society, former presidents, viz., Mr. Percy Waterer, Mr. Henry Eckford and Mr. George Gordon being also included.

The articles are numerous, portraits of most of the authors being given. A few headings may in a brief way give an idea of the scope of this new annual, viz., Fungoid diseases of the sweet pea, by George Massee; Sweet pea novelties of 1905, by T. A. Weston; Sweet peas in decoration, by George Gordon; Sweet peas in California, by Lester L. Morse; Cross fertilization of the sweet pea, by J. W. Dawson; The popularity and many virtues of the sweet pea, by A. N. Dickson; The Countess Spencer type, by Silas Cole, and many others.

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- THE DAHLIA** (Peacock); revised edition; 30 cents.
- CHRYSANTHEMUM MANUAL** (Smith); 120 pages; illustrated; 40 cents; revised edition ready April 1.
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SEED TRADE TOPICS

GRASSES FOR PASTURE AND FORAGE.

J. Otto Thilow of H. A. Dreer, Inc., read a valuable paper on the above subject at the Philadelphia Farmers' Institute on Jan. 16. The following lists of best grasses for various purposes as given by him will be found useful:

For Meadows and Low, Moist Ground.

Kentucky Blue (*Poa pratensis*).
Rough Stalked Meadow (*Poa trivialis*).
Red Top or Herd Grass (*Agrostis vulgaris*).
Creeping Bent (*Agrostis stolonifera*).
Tall Meadow Oat (*Arrhenatherum avenaceum*).
Tall Meadow Fescue (*Festuca elatior*).
English Perennial Rye (*Lolium perenne*).
Meadow Foxtail (*Alopecurus pratensis*).
Orchard Grass (*Dactylis glomerata*).
Sweet vernal (*Anthoxanthum odoratum*).
Alsike and White Clover.

For Heavy and Rich Uplands.

Kentucky Blue (*Poa pratensis*).
Canadian Blue (*Poa compressa*).
Rhode Island Bent (*Agrostis canina*).
Sheep's Fescue (*Festuca ovina*).
Perennial Rye (*Lolium perenne*).
Meadow Foxtail (*Alopecurus pratensis*).
Orchard Grass (*Dactylis glomerata*).
Crested Dogtail (*Cynosurus cristatus*).
Meadow Fescue (*Festuca pratensis*).
Red Clover (*Trifolium pratense*).
Alsike (*Trifolium hybridum*).
White (*Trifolium repens*).

On Dry, Poor Lands and Elevations.

Canadian Blue (*Poa pratensis*).
Creeping Bent (*Agrostis stolonifera*).
Hard Fescue (*Festuca duriuscula*).
Red Fescue (*Festuca rubra*).
Sheep's Fescue (*Festuca ovina*).
Brome (*Bromus inermis*).
Orchard Grass (*Dactylis glomerata*).
White Clover (*Trifolium repens*).
Red Clover (*Trifolium pratense*).

For Shade.

Wood Meadow (*Poa nemoralis*).
Kentucky Blue (*Poa pratensis*).
Crested Dogtail (*Cynosurus cristatus*).
Red Fescue (*Festuca rubra*).
Orchard Grass (*Dactylis glomerata*).
White Clover (*Trifolium repens*).

For Hay in Rotation of Other Crops.

Timothy (*Phleum pratense*).
Millet.
Hungarian Grass.
Italian Rye (*Lolium italicum*).
Red Clover.
Alsike Clover.

For Hay in Meadows, Permanent.

Kentucky Blue.
Red Top or Herd.
Tall Meadow Fescue.
Tall Meadow Oat.
Meadow Foxtail.
Timothy.
Alsike Clover.
Red Clover.

For Soiling.

Italian Rye Grass.
Millets.
Hungarian Grass.
Clover and Peas.

For Binding Banks.

Canadian Blue.
Rhode Island Bent.
Creeping Bent.
Red Fescue.
Awnless Brome.
Sheep's Fescue.

TEST OF 1905 SEED NOVELTIES.

(Translated from "Gartenflora" by G. B.)
(Continued.)

Senecio clivorum—Large broad leaves, reminding of Tussilago; has not yet flowered; perennial.

Senecio tanguticum—Has still more beautiful leaves, lying close to the ground; report of flowering next year.

Aquilegia vulg. compacta rosea fl. pl. Report next year; has not flowered.

Althea hybr. semperflorens fl. pl.—A double variety with an endless flower crop all through summer, in all known colors of the altheas; a few single amongst them; seed should be sown in March; very good.

Isota glauca—A 12-inch-high perennial with ash gray leaves; flowers lemon-yellow; good for large bouquets. In conclusion, we name some old favorites, which we tested again and which are likely to become again useful, although very little in culture at present:

Chrysanthemum coronarium luteum and album—A good grouping plant; when raised from cuttings will not grow too rank. Flowers yellow and also white; largely cultivated lately in Sanssouci by Potsdam.

Leucanthemum uliginosum—Perennial, over 3 feet high; if sown early will flower the first year; flowers white.

Eupatorium ageratoides—Myrtle-like foliage, white flowers; good fall and winter bloomer.

Mimulus tigrinus gr. fl. and nanus.—Good for grouping.

Tagetes lucida—Good for bouquets; flowers in small yellow clusters.

Trachelium coeruleum, also album—Good summer plant; lilac and white; fine for groups.

Saponaria multiflora and *S. multiflora alba*—Better than silenes out of doors; long flowering period.

Oenothera fruticosa major—Perennial with shining yellow flowers.

Uniola latifolia—Bamboo-like perennial ornamental grass.

Rehmannia angulata—A very nice herbaceous plant, with some rose flowers the first year; similar to martynia; small, robust, serrated leaves, lying close to the ground; very good.

SEED TRADE NOTES.

W. C. Langbridge says we were altogether too conservative in our estimate of the attendance at the Canners' convention. There were nearer 1400 than 700 in attendance. Also that we omitted to mention Theodore Cobb of D. M. Ferry Co. as present—an important omission, as he was reported to have been taking in big orders. Mr. Langbridge thinks he can beat that 3000 bushel tale, as he got one order for 6000 bushels of Alaska.

CATALOGUES RECEIVED.

Hoopes, Brother & Thomas, West Chester, Pa. Semi-annual trade list.
John H. Dunlop, Toronto, Ont. Wholesale catalogue of roses, carnations, etc.

Holton & Hunkel Co., Milwaukee, Wis. Florists' Reference Book. Illustrated trade list of florists' supplies, plants, etc.

Tree and Shrub Seeds. Otto Katzenstein & Co., Atlanta, Ga. Much more than a catalogue, this publication with its handsome arboreal views and sound advice on tree topics deserves a place in every rural home on the continent.

—
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CONRAD APPEL'S GRASS SEED REPORT FOR JANUARY.

Regarding the crop results of grass seeds, several sorts, such as the home grown (German) *Agrostis*, *Poa trivialis* and *Poa nemoralis* had a smaller yield than last year. *Aira caespitosa* and *Aira flexuosa* and especially *Alopecurus pratensis* had a poor crop only; the latter has become very scarce now and is very dear consequently. *Avena elatior*, but especially *Anthoxanthum odoratum*, true, offer at low figures in good qualities. This refers as well to *Cynosurus cristatus*, whereas *Dactylis glomerata* has a small crop only. *Festuca ovina* had a smaller result than last year, also the other *Festuca* sorts, which therefore sell at higher prices. The *Bromus* varieties, also *Holcus lanatus* are obtainable in good qualities at moderate figures. *Lolium perenne* and *italicum* had good results and are not too dear.

Just to touch the crop results of the several clover seeds, there is but little red clover raised in the Palatinate. Austria has a medium crop, Russia is not in the market owing to the unsettled conditions, and from France and Italy, which as a rule take an active part in the trade, arrivals are missing. Lucerne has suffered in quality during the harvest by unfavorable weather. Superior grades of Provence seed are scarce and have consequently gone up in price. White clover a small crop, but stocks of yearling seed will not allow the prices to rise. Alsike scarce and in good demand. Sainfoin, one and two cuts, have started with moderate prices, although the yield is not a large one.

Of the several other agricultural seeds, *Seradella*, Lupins, Vetches, Peas and Mustard seed have partly suffered by rain, and at present medium qualities are only offered. Better grades will be in good demand and will consequently be dear.

VEGETABLE GROWING.

A general discussion on the subject of Vegetable Growing was held at Horticultural Hall, Boston, on Saturday, Feb. 3, in place of the customary lecture.

The discussion was opened by Hon. Warren W. Rawson of Arlington who presented an interesting and practical address on the subject. He said that the necessary requirements for growing good vegetables are proper soil, good seed, thorough cultivation, and careful attention. The soil for most vegetables should be of a sandy nature with a good subsoil for drainage. A soil of this nature is especially adapted to such crops as lettuce, spinach, radishes, cucumbers, beets, parsnips, rhubarb, parsnips, peas, beans, celery, tomatoes and early cabbages, while a heavier soil with clay is best for such crops as onions, cabbages, early celery and summer corn. The light, sandy soil can be cultivated much earlier than the heavy soils and will produce two or three crops each season with the same soil in most cases. He recommended a soil of this nature for the best results.

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of 20 to 30 cords to the acre, and that stable manure has proved to be a complete manure, but if a second crop is to be grown on the same land an additional ton of some special fertilizer suitable to that crop is often necessary. But after all the growing of all crops depends more on the man than anything else.

In the course of the discussion which followed his opening remarks, in reply to a question, Mr. Rawson stated that he had found the arc electric light beneficial in the growing of lettuce under glass and that he was now experimenting with the application of a current of electricity in the soil which promises to be of still greater benefit. He said if any one doubted the effect of electricity on the growing crops under glass he would be glad to have them see two of his lettuce houses, one of which was treated with electrical appliances and the other without them. The difference in the result was very marked in favor of the electrically treated crop. He was still in the experimental stage on this subject and hoped in the course of a year to report the results more fully.

Referring to the matter of the sterilization of the soil he said that after the experience of eight years he had found it more successful and satisfactory; in fact, it was the best thing he ever did in the greenhouse line and the most profitable.

In answer to another question he said that the trouble with most farms is the lack of proper treatment. The soil was not worked enough. He advised one ploughing in the fall followed by two more in the spring.

INTERNATIONAL EXHIBITION.

Translated from "Gartenflora," Berlin, by G. B.

The city of Mannheim, Germany, is planning an International Art and Horticulture Exhibition, the cost of which is estimated at \$200,000. The management of the Horticulture Exhibition is intrusted to Prof. Max Lauger, Karlsruhe, and the Art Exhibition to Prof. Ludwig Dill. From city funds \$12,000 are promised, while from private parties a guarantee fund of \$80,000 has already been given. About \$25,000 of the fund is to be used to buy pieces of art from exhibitors. How much money is put aside for horticultural purchases is not disclosed.

We are sorry to learn that Joseph A. Manda, of South Orange, N. J., is sick with typhoid fever.

PHILADELPHIA NOTES.

Herman Anhauser of Lansdowne had a fire on the morning of the 16th. Started in the boiler shed. Damage \$50. Might have been worse except for the strenuous efforts of William J. Muth, a Philadelphia wholesaler, who got on the roof and worked like a real fireman. Unfortunately the roof had a slant with plenty of ice, and without thinking Mr. Muth took a slide and came down real quick, striking on the frozen ground with a terrible bump. Mr. Eckels says that all Americans are honest at bottom. It was a good thing for Mr. Muth that he hit on the honest place.

C. W. Ward of Cottage Gardens gave an illustrated lecture on Carnations before the Pennsylvania Horticultural Society on the 20th inst. There was an interesting exhibition of new carnations, roses, primulas and cyclamens at this meeting.

A. B. Scott reports that the demand for young roses grafted on the Dickson-Manetti stock is unusually large this season, and that he is already booked to the full capacity.

Paul Klingshorn of the Dumont forces is down with typhoid fever.

OBITUARY.

February 13 the last of the Pouyal family died in San Francisco. It was noted as a prominent family of florists. The parents, John and Marie, opened a plant and flower store thirty-five years ago. Three months ago it was noted in HORTICULTURE that Alfred Pouyal, the only surviving member of the family, made a decoration of the flower store on its thirty-fifth anniversary. The father died two years ago. The elder son, Raymond, who succeeded the father in the store's management, died one year ago. The mother, who succeeded Raymond as manager, died three months ago, when Alfred, the last of the family, took the store's management, but on the 13th instant he too passed on—following father, mother and elder brother.

An International Botanical Congress will be held in Brussels in 1910. Owing to the death of Professor Errera, the Count Kerchove de Denterghem will be chairman of the organizing committee. This gentleman, who is and has been for many years president of the Royal Horticultural and Botanical Society of Ghent, is a well-known and ardent lover of horticulture in all its branches.

A FINE BROOKLINE ESTATE.

The estate of E. D. Brandegee, comprising some 225 acres, is one of the finest around Boston. Besides the large greenhouses, which contain many fine orchids, ferns and specimen decorative plants, there are rose, carnation, violet and chrysanthemum houses, one large house devoted to mixed flowering plants, such as heaths, acacias, callas, etc., under the efficient charge of Mr. Weir, the superintendent and gardener of the estate. There are about fifty acres in ornamental grounds, twenty in garden park and two acres in rhododendrons, of which there are about seventy-five varieties. Some of the rhododendrons succeeding best here are Everestianum, rosy lilac; H. H. Hunnewell, dark crimson; H. W. Sargent, crimson; Mrs. Milner, rich crimson, elegant foliage; Roseum Elegans, an old sort but should be in every collection; Lady Armstrong, pale rose; Hannibal rose, late variety; Delicatissimum, white tinted with pink; Charles Dickens, dark scarlet; Album Grandiflorum, bluish, fine foliage; Mrs. John Clutton, white; Sappho, white blotched with maroon; Blandyanum, crimson, and Chionicles, yellowish white.

For summer decoration of the Italian garden and on the terraces around the mansion 100 bay trees from 7 to 16 feet in height, standards and pyramids, are used. They are usually set out about the last week in April and put in the storage house the middle of October and given all ventilation possible in mild weather. Box plants, standard and pyramid, California privet in pots and tubs, standard lilacs, Hibiscus syriacus, Ixus Hibernica in tubs, and English hollies are also largely used for the same purpose.

The estate has some fifty acres woodland, about one hundred acres in meadow and mowing. The driveways and roads are annually fixed up with crushed stone, which keeps them in fine condition. The lawns have frequent top dressings and waterings in dry weather, and when mowed feel like velvet under foot.

W. SWAN.

Zimmer Bros. will open a new flower store at the corner of Farnum and 19th streets, N. W., Omaha, Neb. George Zimmer has been with the Colfax Floral Co., of Denver, and Lewis Zimmer has had charge of the conservatory at the State Insane Asylum.

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New Offers on Pages 234, 235 and 236.

CALIFORNIA NOTES.

California weather was partly cloudy and warm in all parts of the State nearly all the passing week. Light rain fell in all sections at intervals, and heavy rains occurred in portions of South California. The reservoirs of the State are well filled and all streams are running, insuring abundance of water for irrigation during the season. And it is of great economic importance that the snow in the mountains of California averages nine feet in depth now, and is frozen hard. That the snow is deep and frozen means that it will lie until gradually thawed in the spring and summer, when the water released by the sun will furnish supplies to the streams for irrigation at the time of need, and it will also give the water for electric power and its other uses in mining.

Commencing March 1st the German Government will exact in import duties 10 marks per 100 kilos on dried apples, peaches, apricots and pears from the United States, while the same product from France, Italy and Austria will only have to pay 4 marks per 100 kilos on the same dried fruits. In view of this, prominent horticulturists and canners met this week with the California State Board of Trade which passed a resolution requesting the United States senators and representatives to use their utmost efforts to impress upon the Federal Government the necessity of giving the dried fruit industry of California a full consideration and protection in any commercial agreement which may be made with the German Empire.

Horticulturally considered California's productive rank is second only to New York. This is brought out in Philip Loring Allen's Washington letter published this week in a San Francisco paper. This Washington correspondent has access to Horticultural Hall statistics, and speaking of the different States' productive awards says that New York has seventeen in the horticultural departments, namely: Potatoes, onions, beets, carrots, parsnips, turnips, green beans and peas, sweet corn, cucumbers, rhubarb, cabbage, cauliflower, beans, currants, raspberries and hay. California, he says, stands next in productive rank, having fourteen awards as follows: Pumpkins, asparagus, peaches, nectarines, pears, plums, prunes, almonds, walnuts, figs, lemons, olives, oranges and pomeloes, Massachusetts and Virginia, Mr. Allen says, are tied with three prizes apiece. "The Old Dominion has kale, spinach and peanuts to her credit, while 'there Massachusetts stands, behold her' squashes, lettuce and cranberries."

"What kind of society lands do you mostly have in Baltimore?"
"American beauties" Baltimore American.

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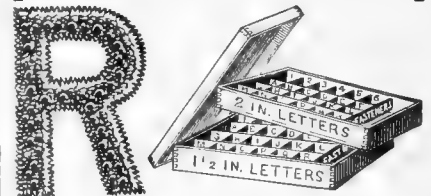
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	CHICAGO Feb. 13	ST. LOUIS Feb. 10	PHILA. Feb. 10	BOSTON Feb. 21
ROSES				
Am. Beauty and Edgely Fan. & Sp.	42.00 to 48.00	40.00 to 50.00	60.00 to 75.00 to
Extra.....	21.00 to 32.00	20.00 to 30.00	35.00 to 50.00	40.00 to 60.00
No. 1.....	18.00 to 20.00	10.00 to 15.00	15.00 to 20.00	15.00 to 25.00
Lower grades.....	8.00 to 12.00	5.00 to 8.00	8.00 to 12.00	4.00 to 8.00
Bride & Maid—Fan. & Sp.	10.00 to 12.00	1.00 to 1.00	12.00 to 15.00	8.00 to 12.00
Extra.....	6.00 to 8.00	6.00 to 8.00	12.00 to 15.00	6.00 to 8.00
No. 1 and Lower gr.	4.00 to 6.00	4.00 to 5.00	6.00 to 10.00	2.00 to 5.00
Liberty, Fancy.....	12.00 to 18.00	..... to 3.00	3.00 to 5.00	12.00 to 25.00
Ordinary.....	6.00 to 1.00	..... to 1.00	1.00 to 15.00	8.00 to 12.00
Richmond, Fancy.....	15.00 to 20.00	10.00 to 12.50	30.00 to 35.00	2.00 to 30.00
Ordinary.....	6.00 to 12.00	6.00 to 8.00	12.00 to 15.00	8.00 to 12.00
Golden Gate, Fancy.....	8.00 to 12.00	8.00 to 1.00	12.00 to 15.00	6.00 to 8.00
Ordinary.....	4.00 to 6.00	4.00 to 8.00	6.00 to 8.00	2.00 to 4.00
Chatenay, Fancy.....	1.00 to 12.00	10.00 to 12.50	15.00 to 20.00	6.00 to 8.00
Ordinary.....	4.00 to 6.00	4.00 to 8.00	8.00 to 12.00	3.00 to 5.00
CARNATIONS				
Fancy.....	4.00 to 5.00	4.00 to 5.00	4.00 to 6.00	3.00 to 4.00
Ordinary.....	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	1.00 to 2.00
MISCELLANEOUS				
Cattleyas.....	40.00 to 48.00	..... to 60.00	75.00 to 100.00	50.00 to 75.00
Lilies.....	14.00 to 32.00	..... to 12.00	15.00 to 15.00	8.00 to 12.00
Lily of the Valley.....	2.50 to 5.00	3.00 to 4.00	3.00 to 5.00	2.00 to 4.00
Violets.....	1.00 to 1.50	.50 to .60	.50 to .75	.20 to .60
Tulips.....	2.50 to 5.00	1.50 to 5.00	3.00 to 6.00	1.50 to 2.00
Roman Hyacinth, Paper White, Nar.	2.00 to 4.00	2.00 to 3.00	3.00 to 4.00	1.00 to 2.00
Daffodils, Trumpets.....	2.00 to 4.00	1.00 to 3.00	3.00 to 4.00	1.00 to 2.00
Mignonette.....	4.00 to 10.00	4.00 to 6.00	3.00 to 4.00	4.00 to 2.00
Adiantum Cuneatum.....	1.00 to 1.25	..... to 1.00	1.00 to 1.00	.75 to 1.00
" Crowneum.....	.75 to 1.50	..... to 1.00	1.00 to 1.50	..... to 1.50
Smilax.....	12.50 to 15.00	12.50 to 15.00	15.00 to 20.00	12.00 to 16.00
Asparagus Plumosus, strings.....	35.00 to 50.00	25.00 to 50.00	35.00 to 50.00	50.00 to 50.00
" " & Sprenger bunches	25.00 to 40.00	25.00 to 50.00	50.00 to 75.00	20.00 to 50.00

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CUT FLOWER MARKET REPORTS.

There is a notable dearth of stock to supply the demand for fancy grades such as called for in these closing days of the fashionable season. The prospects are for a continuance of present conditions until Lent comes in—March 1 at least. After that, a reaction may set in. All flowers of good quality are sailing along satisfactorily, except bulbous stock, much of which, although of excellent quality, has to be sold at figures that leave little or nothing for the grower. Lily of the valley is a possible exception, the many bridal occasions for this month having befriended it greatly. Considerable complaint is heard of the poor keeping quality of carnations now coming in. There is no suspicion that they have been stored—rather is it possible that they are sent in too promptly, and that a preliminary cooling off process in the right atmosphere would naturally strengthen their staying powers.

The conditions of the cut flower trade for the past week were quite satisfactory. Demand for stock has been quite brisk. Cut flowers and plants sold well in stores; prices have been fully as good as those of last year. On Valentine's Day the best demand was for violets, and at noon hardly a bunch was visible. Good supply of all seasonable stock was seen, and a fairly good clearance sale was had at the end of the week. Carnations were of the finest quality, the price holding firm; roses were not plentiful, but some excellent Bridesmaids, Brides, Brunners and Richmonds were seen and brought good returns. Lily of the valley, Roman hyacinths, narcissi, mignonette and sweet peas of fine quality could be had at reasonable prices, while tulips and daffodils came in faster than they could be disposed of. Considerable floral work was on the list which absorbed a good quality of white material. Easter lilies are in fair proportion to the demand. Calla supply heavy and sales good. Adiantum and asparagus plumosus and sprengeri are in good demand.

A healthy tone exists in the cut flower market. All stock is showing a steady improvement and business continues to be brisk. There is not an over-supply of anything with possibly the exception of violets and daffodils. Good roses are still somewhat scarce, but there is such a variety of flowers to be had that they are not so badly missed. Bulbous stock has done much to relieve the condition that has prevailed

for several weeks. Green goods are more plentiful, but the supply is still limited. There is but little complaint about the price asked for stock.

Since the Christmas holidays we have had a most satisfactory business in cut flowers, and in fact everything in the floral line. Trade did not suddenly break off at Christmas, but in a large measure kept right along. On Valentine's Day every member of the craft was simply astounded at the flood of orders that were placed. It was like an Easter business: everything was cleaned out by the early afternoon; therefore a great many orders were lost, as stock to fill them could not be obtained. Violets were the favorites; then carnations. We are bothered a little in obtaining good stock at times, but this is not so bad as a shortage of customers would be.

In most localities exceedingly fine business is reported, stock being more plentiful at the wholesale houses and very few flowers going astray. There has been much demand the past week for white carnations, owing to all for them at the automobile exhibition. Other carnations came and went rather steady. Roses continue to improve, there being some very fine Brides and Bridesmaids on the market. Beauties are not so much in demand and some worry is saved, as the supply would not fill many orders. The weather has taken on a warmer aspect, which has been saving much time in the wrapping of goods for protection. The sale of hardy ferns is reported very good at the wholesalers'.

Business conditions last week, owing to St. Valentine's day, were very satisfactory, the weather being likewise. Carnations had a very good demand, the stock and supply being good. The demand for roses was very encouraging, the quality and supply being generally satisfactory. Violets had a demand of great merit, but unfortunately the stock was not there to supply it. Lilies of the valley and forget-me-nots were greatly sought for. Mignonette, tulips, jonquils, hyacinths, narcissi and all other seasonable stock sells up to expectations, with the supply generally satisfactory.

Trade has been more active the past two weeks with sufficient supply to meet all demands excepting in roses. American Beauties and teas continue to be short in supply, owing to unsatisfactory

weather. Fancy carnations appeal strongly to buyers, and flowers entitled to such grading bring good prices. Bulbous stock is arriving in good quantities, with steady demand. All the retailers report the best St. Valentine's trade in years, with violets as a leader. This flower has come into great favor for use on that day. The public is educated to associate a certain flower with a certain day, and is worthy of commendation as a stimulus to trade. Sweet peas are more plentiful and improving daily. Funeral work and decorations have consumed an immense amount of stock of late.

The great call for flowers on Valentine's day gave an added impetus to an already good week's business. Violets have been plentiful and have sold well; roses, with the exception of American Beauties, have been abundant and have brought good prices, as have also carnations, of which there has been no lack.

St. Valentine's day was the event of a busy week, and general reports indicate 25 per cent. over any other year. Red flowers of all kinds were much in demand—red carnations, red roses, red tulips, etc., went with a rush. Violets and myosotis were great favorites with the moderate buyers, and their name was legion. Business outside of this special function was good. The only falling off was on Saturday, when things were a little slack. Beauties are more plentiful and of fine quality. Lily of the valley is not quite up to the usual standard, but prices remain normal. Carnations are good and keep firm at former quotations, although the demand for such varieties as Flamingo took a jump at St. Valentine's. Orchids are scarce.

CLUB AND SOCIETY NOTES.

E. W. Breed of Clinton, Mass., addressed the Worcester County Horticultural Society on February 15, his topic being "Herbaceous Plants."

The Huntington Horticultural and Agricultural Society, N. Y., at its meeting last Tuesday evening was addressed by E. V. Titus of Glen Cove, who superintended the work of spraying the Glen Cove section last season. The cost, benefits and results of the work were his theme.

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Roses			Carnations		
Am. Beauty and Edgeley fan and sp.	75.00 to 100.00	50.00 to 75.00	Fancy	3.00 to 4.00	3.00 to 5.00
extra	40.00 to 60.00	35.00 to 40.00	Ordinary	1.50 to 2.00	1.50 to 2.00
No. 1	10.00 to 15.00	15.00 to 20.00	Cattleyas	50.00 to 60.00	50.00 to 60.00
Lower grades	1.00 to 1.00	1.00 to 10.00	Lilies	10.00 to 12.00	8.00 to 12.00
Bride & 'Maid, fan and sp.	12.00 to 15.00	10.00 to 12.00	Lily of the Valley	2.00 to 4.00	1.00 to 3.00
extra	10.00 to 12.00	6.00 to 1.00	Violets .....	.40 to .60	40 to .75
No. 1 and lower grades	3.00 to 6.00	3.00 to 6.00	Tulips	1.50 to 6.00	1.00 to 4.00
Liberty, fancy	6.00 to 6.00	20.00 to 30.00	Roman Hy. Paper White Nar.	1.00 to 2.00	1.00 to 2.00
ordinary	8.00 to 12.00	3.00 to 12.00	Daltonis, Trumpets	1.00 to 2.00	1.00 to 2.00
Richmond, fancy	20.00 to 25.00	20.00 to 25.00	Mignonette	1.00 to 1.00	2.00 to 8.00
ordinary	8.00 to 1.00	3.00 to 12.00	Adiantum Cuneatum	1.00 to 1.50	1.00 to 1.25
Golden Gate, fancy	8.00 to 15.00	8.00 to 12.00	Croweanum	1.00 to 1.50	1.00 to 1.50
ordinary	3.00 to 5.00	3.00 to 6.00	Smilax	3.00 to 12.00	8.00 to 16.00
Chatenay, fancy	8.00 to 15.00	1.00 to 12.00	Asparagus Plumosus	1.00 to 1.00	20.00 to 35.00
ordinary	3.00 to 5.00	1.00 to 1.00	" & Sprent, bunches	1.00 to 1.00	20.00 to 35.00

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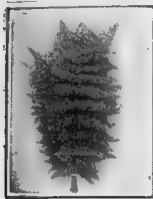
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WHOLESALE FLOWER MARKETS. — PER 100. — TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	Feb. 19		Feb. 19		Feb. 19		Feb. 19	
ROSES								
Am. Beauty and Elgely. fan and sp.	40.00	to 50.00	50.00	to 60.00	50.00	to 70.00	65.00	to 75.00
" extra.....	25.00	to 30.00	40.00	to 50.00	30.00	to 50.00	40.00	to 50.00
" No. 1.....	12.00	to 20.00	25.00	to 30.00	15.00	to 25.00	20.00	to 25.00
" Lower grades.....	5.00	to 10.00	10.00	to 25.00	8.00	to 15.00	6.00	to 8.00
Bride and Maid, fan. and sp.	.....	to 2.00	10.00	to 20.00	12.00	to 15.00	15.00	to 18.00
" extra.....	5.00	to 6.00	8.00	to 10.00	10.00	to 12.00	10.00	to 12.00
" No. 1 and Lower gr	3.00	to 4.00	4.00	to 8.00	5.00	to 8.00	4.00	to 8.00
Liberty, fancy.....	.....	to 8.00	10.00	to 15.00	10.00	to 15.00	15.00	to 20.00
" Ordinary.....	4.00	to 6.00	5.00	to 8.00	4.00	to 10.00	6.00	to 10.00
Richmond, fancy.....	.....	to 12.00	10.00	to 15.00	.....	to 20.00	20.00	to 25.00
" Ordinary.....	.....	to 12.00	10.00	to 15.00	.....	to 20.00	6.00	to 15.00
Golden Gate, fancy.....	6.00	to 8.00	.....	to 10.00	10.00	to 12.00	8.00	to 10.00
" Ordinary.....	3.00	to 4.00	.....	to 10.00	10.00	to 8.00	4.00	to 6.00
Chatenay, fancy.....	.....	to 5.00	10.00	to 10.00	.....	to 15.00	15.00	to 20.00
" Ordinary.....	.....	to 4.00	8.00	to 8.00	.....	to 10.00	4.00	to 12.00
CARNATIONS								
Fancy.....	4.00	to 8.00	3.00	to 4.00	3.00	to 4.00	4.00	to 6.00
Ordinary.....	1.50	to 2.00	2.00	to 3.00	1.50	to 3.00	1.50	to 3.00
MISCELLANEOUS								
Cattleyas.....	.....	to 50.00	.....	to 50.00	.....	to 50.00	.....	to 50.00
Lilies.....	12.00	to 15.00	10.00	to 15.00	10.00	to 15.00	12.00	to 15.00
Lily of the Valley.....	3.00	to 4.00	4.00	to 5.00	2.00	to 4.00	2.00	to 4.00
Violets.....	5.00	to 10.00	7.50	to 12.50	4.00	to 7.50	7.50	to 12.50
Tulips.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Roman Hyacinth.....	2.00	to 4.00	.....	to 4.00	2.00	to 4.00	2.00	to 4.00
Daffodils, Trumpets.....	3.00	to 4.00	.....	to 4.00	.....	to 4.00	4.00	to 4.00
Mignonette.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Adiantum Cuneatum.....	1.00	to 1.00	.....	to 1.50	.....	to 1.50	.....	to 1.50
" Croweatum.....	.....	to 1.25	.....	to 1.25	.....	to 1.50	1.50	to 2.00
Smilax.....	12.50	to 15.00	.....	to 15.00	12.50	to 15.00	12.50	to 15.00
Asparagus Plumosus, strings.....	40.00	to 50.00	to 40.00	40.00	to 50.00	35.00	to 50.00
" " Sprenger, bunches.....	to 35.00	to 40.00	25.00	to 50.00	40.00	to 50.00

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and all Decorating Evergreens.

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20 West 27th St.

NEW YORK

Telephone Madison Sq.

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Anchor Greenhouse Hose is the best for Florists.
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Thomas Young, Jr., New York.
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Appel, Darmstadt, Germany.
High Grade Grass, Clover, and Tree Seed.

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Alex. J. Guttman, 43 West 28th St.

E. C. Horan, 55 West 28th St., New York.
Philip F. Kessler, 55 W. 26th St., New
York.

Julius Lang, 53 West 30th St., New York.
A. H. Langjahr, 55 W. 28th St., New York.

James McManus, 50 W. 30th St., New York.
Chas. Millang, 50 West 29th St., New York.

Frank Millang, 55-57 W. 26th St., New
York.

A. Moltz, 55-57 W. 26th St., New York.
John J. Perkins, 115 W. 30th St., New York.

John I. Raynor, 49 W. 28th St., New York.
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TOMATO AND PLANT SUPPORTS.

Igoe Bros., 224 North 9th St.,
Brooklyn, N. Y.
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WANTS.

GOOD MEN

When you need good men,
skilled or unskilled, write:

THOS. H.
BAMBRICK

34 South 7th Street, Philadelphia

Help of all kinds, including that for
Florists, Nurserymen, Seedsmen and the
Horticultural trade generally.

HORTICULTURE needs a wide-
awake representative in every town
in the land. Good commissions paid
on advertising and subscriptions. If
you are ambitious, write for terms.

WANTED TO RENT—Three or four
greenhouses and grounds in the vicinity of
Boston. Address M. B., care of HORTI-
CULTURE, 11 Hamilton Place, Boston.

COMPETENT GARDENER wishes to
take charge of a private place with green-
houses; over 10 years' experience in North
and South America; good references. Ad-
dress H-212, care HORTICULTURE, 11
Hamilton Place, Boston.

YOU WANT ORDERS
WE WANT ADVERTISING
LET US GET TOGETHER

AN EXCITING HUNT FOR INSECT
PARASITES.

From the latest scientific bug hunt George Compere, chief of the State Horticultural Department of California, recently returned by steamship from China. His itinerary embraced travel from San Francisco to New York, from New York to Brazil, from Brazil to London, from London to West Australia, from Australia to China and from China to San Francisco. Compere went for parasites to prey on two kinds of scales that infest and destroy orange trees. One sort he found and carried to West Australia on a Government order. The second parasite involved the most curious quest for relief from pests and the longest one in point of miles traversed in the interest of science that the annals of such work may boast.

The purple scale damages the orange trees of Southern California largely. Some months ago a parasite that kills the purple scale was found and many of its eggs were sent to San Francisco to the quarantine station for insect pests, in the Ferry building in cold storage. There the specimens were viewed with admiration by Compere's confreres, Ehrhorn and Carnes, and great results were hoped for. Unfortunately the eggs did not hatch. Probably the cold storage was too much for them. How to get the parasite here in shape to do business as against the purple scale was a question that became pressing. Compere was circumnavigating the world. Communication was had with him and it was agreed that trees infested with the purple scale should be sent from San Francisco to China, to be taken inland several hundred miles in China and there exposed to the visits of the purple scale exterminator.

Compere found the trees from California in China at a sea port. He then had to journey by boat many days up a river that ran so swiftly that oarsmen could not row against the current, and it was necessary to have coolies on the river banks pull the boat along with ropes for days at a time. Finally, after some rough experiences, Compere reached the province that is the home of the enemy of the purple scale. There he went ashore.

Thousands of the Chinese farmers in the neighborhood had never seen a white man before and came miles to see Compere. The owner of the boat in which Compere had journeyed would not tie his boat to the river bank at night, because he knew that he would be killed by Chinese thieves who wished to get it, and he anchored nightly in the middle of the river. The traveled orange trees were taken ashore and were carried by two men many more miles by land. There the purple scale exterminator finally made its home in the imported trees.

Once more the trees were picked up and laboriously carried by hand by two coolies to the river. The trees were shipped by Compere and he accompanied them to the sea. Then they were put, after a time, on a steamship for San Francisco, and they reached this port simultaneously with Compere, having journeyed 12,000 miles by sea, some hundreds of miles



I find the Fumigating Kind Tobacco Powder gives the most satisfactory results. It is better than anything I have ever used, does not injure the color of flowers nor leave any unpleasant odor.

BELL MILLER, Springfield, Ill.

Why not ask for a free five pound trial sample, its convincing, it only costs you the express charge. It's no newfangled thing, hundreds write of it like Mr. Bell Miller. Our booklet tells how to fumigate a house 100x25 feet with it for fifteen cents. THE H. A. STOOFFHOFF COMPANY, 119 West Street, New York City, N. Y.

by river and many more hundreds by land.

From now on the trees will be watched with daily and constant care. If the purple scale parasites on them develop and live, the problem of relief to Southern California orchards will have been solved. If they fail to fulfil expectations then a second journey to China will be necessary. The search will be kept up as long as the pest exists.

REFORESTING THE CALIFORNIA MOUNTAINS.

Hon. T. P. Lukens gave an informal illustrated talk recently, at Pasadena, Cal., under the auspices of the Pasadena Gardeners' Association, upon the practical side of the forestry work in this section, illustrating his remarks with lantern slides intended to show some of the beautiful scenery in the mountains as well as the government nursery work in the forest reserves. He told of the nurseries that have taught the important lesson that the old method of sowing seeds broadcast in order to plant a burned-out district

is useless in this part of the country at least.

Here the seed is now planted in the government nurseries, and after two or three years' growth the little trees are transplanted to the hillsides and mountain slopes. Experience has shown that this method is most likely to succeed. Fire breaks and constant watching of the fires, together with systematic tree planting, are expected in time to bring back the valuable forests with which the mountain slopes of Southern California were once covered.

A NEW SUMMER ESTATE.

Rocky Point, the summer home of Charles A. Stone, is situated four miles east of Plymouth, Mass., and about three from Manomet. The estate is some 150 acres in extent, mostly woods as yet, but an ideal warm-weather home is being made. An imposing mansion overlooks Cape Cod Bay. A vegetable garden of about two acres is being laid out, with stone walls around it. The land is very rocky; the soil is clay loam, with hardpan bottom, which makes the trenching and plowing hard work. Many oak and hickory trees had to be removed, and getting out the stumps and roots is no play work. An Italian flower garden adjacent to the house is planted with hardy flowering material, and, with the help of potted plants, is kept gay till late in the fall. On the south end of this a rose garden is being made, which will take some 250 plants. Greenhouses are in the plan, and no doubt will be erected in due time. Wild roses abound in the woods in summer, and asters are plenty—some very beautiful ones in September and October in the open fields and copses. As elsewhere, the winter has been very mild, and much outdoor work has been done here.

W. S.

NITROGEN IN DEAD LEAVES.

A writer in the *Phare de la Loire* shows, in a table just published, the relative fertilizing value of certain kinds of leaves, most of which are rich in nitrogenous contents and consequently good as fertilizers. According to this writer the following are the contents of nitrogen of some of the leaves after their fall in autumn:

	Per cent.
Pear	1.86
Oak	1.18
Poplar	1.12
Beech	1.08
Locust	1.02
Elm	1.00
Vine	0.90

An examination of the fertilizing value of the dead leaves compared with that of ordinary manure shows the following results: 44 pounds of pear leaves, 80 pounds of poplar, 51 pounds of peach, 83 pounds of locust, 82 pounds of elm, and 174 pounds of vine, respectively, are equal in nitrogen to 100 pounds of manure. From report of Consul Goldschmidt, Nantes.

A BARGAIN

I have for sale a modern range of greenhouses, 25,500 feet of glass, 1 1/2 miles from wealthy growing city of 28,000 people. Forty-five minutes from Pittsburgh, Pa. Three railroads and express lines, 28 acres. Ideal soil for roses and carnations in abundance. Admirably adapted to the growing of sn all fruit and garden crops.

Sixty horse power boiler, steam heat. Free natural gas for all light and fuel for greenhouses, and farm buildings. A most complete private water system, 1,000 barrel storage tanks, large dam, never failing springs. Producing oil well on the farm. Buildings high and dry, away from all smoke, dust and dirt, fogs unknown, plants free from disease, houses well stocked and producing paying crops, best market selling high grade stuff direct to retailers. Best of reason for selling. Price, \$32,000, part on time, will show a net profit of 22 1/2 above expenses, can be increased. This offer will bear closest investigation.

S. S. SKIDELSKY

724 No. 24th St

PHILADELPHIA, PA.

Are You To Build? Going....

I am interested in a glass factory in Jersey. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted.

NOT IN THE TRUST.

Address

George C. Watson

1614 LUDLOW
STREET

Philadelphia, Penn.

Remember this factory is NOT in the TRUST and has a free foot

NIKOTEEEN APHIS PUNK

THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT

WIDELY IMITATED BUT NEVER EQUALED

UNIFORM AND ALWAYS EFFECTIVE

DON'T ACCEPT INFERIOR IMITATIONS
PRICE 60¢ PER BOX OF 12 SHEETS
\$6.00 PER CASE OF TWELVE BOXES.

NICOTINE MFG. CO. ST. LOUIS, MO.

Garman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse.
Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

It is the Grower's Friend. It kills all insects and diseases. Test it on all insects and diseases. Price \$1.50 per gallon. A small jar 50¢. Usual method of use.

PERFECTION CHEMICAL CO.,
Flushing, N. Y.

C. EISELE, 11th & Roy Streets,
PHILADELPHIA, PA.

Grafted Brides and Maids

\$10 per 100
\$90 per 1,000

R. T. MCGORUM

Natick, - - - Mass.

POT MAKERS FOR 140 YEARS

A. H. HEWES & Co. Inc. CAMBRIDGE, MASS.

FLORIST

NEWS NOTES.

Harry Clark of Sharon, Pa., lost his entire stock of plants on February 8 through the failure of his steam boiler to do its work. His loss is estimated at \$1,500, and he will be forced to retire from the business.

Consul Baehr of Cienfuegos writes that the Cuban government, in connection with the second international automobile races of Cuba, to be held on Feb. 12, will experiment, at a cost of more than \$6000, with a new process for laying dust. The races will be run over a 50-mile track, which will be sprinkled with an emulsion of asphalt, a process not heretofore tried in any country. From experiments carried on it is believed that the asphalt sprinkled road will be a success, as it promises to be a great improvement over the oiled roads, laying the dust for a much longer period of time. The work will be done with street sprinklers. The asphalt will be reduced to the finest kind of powder. This will be mixed with a solution of alkali and water and sprayed from the sprinkler. Should this experiment prove successful, the new process will no doubt be universally adopted.

LIST OF PATENTS.

Issued February 13, 1906.

- 812,470. Fruit Sorter. Theodor N. Grimsby, Canada.
- 812,528. Pruning Implement. John S. Rohrer, Lancaster, Pa.
- 812,556. Transplanter. William Fetzner, Middletown, Ohio.
- 812,616. Weed Exterminator, Herman Thoeni, Spokane, Wash., assignor of one-half to Albert J. Burt, Spokane, Wash.

GREENHOUSES BUILDING AND PROJECTED.

- Lehr Bros., Brooklyn, Md. One house.
- Wm. Keir, Pikesville, Md.—One house.
- Phoenixville, Conn.—Hiram Lincoln, one house.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.

Consult Buyers' Directory and List of New Offers on Pages 234, 235 and 236.

LET IT STRIKE YOU

FOLEY MFG. CO.
471 W. 22ND ST. CHICAGO.

GREENHOUSE MATERIAL

OF ALL KINDS
HOT-BED SASH VENTILATING APPARATUS
FITTINGS &c.
SEND FOR FREE ILLUSTRATED CATALOGUE

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per pot
1000 in p. ts in crate \$4.80	100 in pot in crate \$4.20
1500 " " " " " 5.25	150 " " " " " 5.00
2000 " " " " " 6.00	200 " " " " " 5.50
3000 " " " " " 8.00	300 " " " " " 7.00
4000 " " " " " 10.00	400 " " " " " 8.50
5000 " " " " " 12.00	500 " " " " " 10.00
6000 " " " " " 14.00	600 " " " " " 11.50
7000 " " " " " 16.00	700 " " " " " 13.00
8000 " " " " " 18.00	800 " " " " " 14.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower .. POTTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money

W. H. ERNEST.

28th and M Streets, WASHINGTON, D. C.

Holds Glass Firmly

See the Point **PEERLESS**

Glazing Points are the best. No rich or lefts. Box of 100 points 75 cts postpaid.

HENRY A. DREER.
214 Chestnut St., Phila., Pa.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

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ERECTED AND EQUIPPED COMPLETE IF DESIRED

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The A. T. STEARNS LUMBER CO.

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PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

Greenhouse Material

Ask for our Special Catalogue No. 554 describing Boiler Tubes, Boilers, Tubes, Gas, Lumber and Supplies of every kind from the Fifty Mill on Dollar St. Louis World's Fair.

CHICAGO HOUSE WRECKING CO.

35th and Iron Sts. CHICAGO

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KING CONSTRUCTION CO.
GREENHOUSE CONSTRUCTION AND EQUIPMENT

WRITE FOR CATALOGUE AND PRICES

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JOHN A. SCOLLY

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BOROUGH OF BROOKLYN, N. Y. CITY

PEERLESS REPAIR CLAMP

GLASS

MADE OF ZINC

SEND CRACKED GLASS IMMEDIATELY AND PERMANENTLY

For sale by robbers. Box of 100 for \$1.00 or address **A. KLOCKNER** Wauwatosa, Wis.

"JUST AS GOOD"

Our competitors claim that their material is "just as good" but they do NOT claim it to be BETTER than ours.

Isn't this sufficient evidence that our material cannot be excelled.

We believe our material to be perfect and you should use it for your greenhouse.

If interested inquire for further information.

JOHN C. MONINGER CO.—Chicago

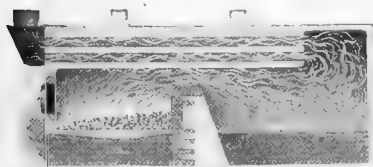
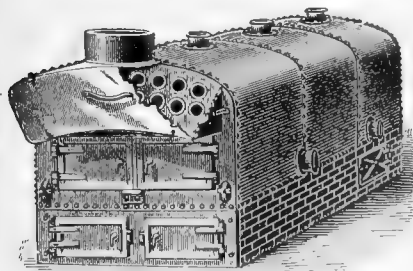
117 E. BLACKHAWK STREET

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

35 Erie Street, CHICAGO.



Boilers made of the best material—shell, fire-box sheets and heads of steel—water space all around front, sides and back. Write for information.

ANNOUNCEMENT

The Pierson U Bar Company has been organized to place vigorously before the public, the U bar type of greenhouse construction, knowing it to be far in advance of any other construction used for greenhouse purposes.

The originators of the U Bar construction, Lincoln Pierson, and Paul M. Pierson, are President and Secretary-Treasurer, Henry S. De Forest, Sales Manager.

The identification of these men with this Company assures the public that the great reputation of the U bar construction will be fully maintained. The patent rights are owned and solely controlled by this Company.

With those anticipating the erection of a greenhouse, we will be pleased to correspond or confer in person.

To our friends we extend a most cordial welcome.

PIERSON U BAR COMPANY

Metropolitan Building, 4th Ave. and 23d St., New York

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE: 111 FIFTH AVE. BOSTON: 74 FRANKLIN ST.

SPECIAL NOTICE TO GREEN-HOUSE MEN

As cold weather crowds your fires, and worries your Hot Water Circulation

REMEMBER

that we can on short notice apply the

HOLLY-CASTLE ELECTRIC CIRCULATOR

and all your troubles will disappear. Then make a note of the coal you save by

INDEPENDENT CIRCULATION

HOLLY-CASTLE CO., Engineers
49 FEDERAL ST., BOSTON, MASS.

LUMBER

For Greenhouse Benches

Ship Lap Drop Siding—anything. Flooring, White Cedar
Boards, etc.

We are in a Special Position to Furnish

Everything in PINE and WHITE OAK BUILDING LUMBER
AT LOW PRICES

Adam Schlo Lumber Co.

Cor. Wood St. & Mass. Ave. CHICAGO
1626 and 1627

About Greenhouses

And the Way Iron Rusts

Put a piece of steel in the ground and it rusts faster than wrought iron. Put a wrought iron pipe as a support or post and it eats itself away at the ground line. Now try a cast iron foot piece and it simply scales over and there it stays — no more rust — good for a century.

That's just the reason why we use the cast iron foot piece at a greater cost to us than the wrought iron

BURNHAM-HITCHINGS-PIERSON CO.

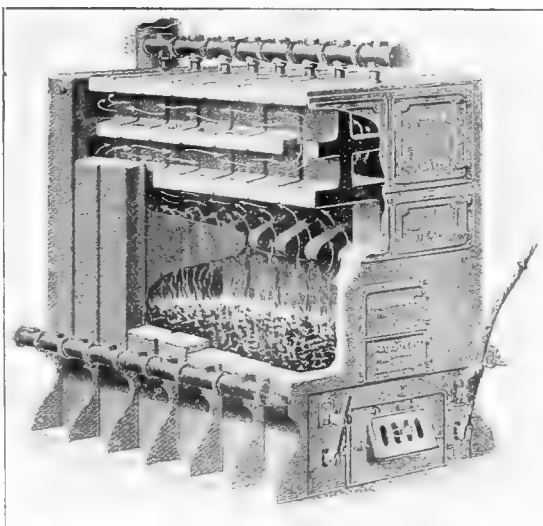
Greenhouse Designers and Manufacturers

1133 Broadway, cor. 26 St., N. Y. Boston Branch, 819 Tremont Bldg.

Gradually you'll see the high-water marks of everything that goes into our houses. The hard headed sense, the experience upon which all our reasons are founded.

Weathered Sectional Boiler

...Just What the Name Implies...



SECTIONAL IN EVERY PART

It is sectional at every 18,000 ft. glass surface

OUR CATALOG TELLS THE REST

Weathered Co.

46 Marion St., N. Y.

The Only Perfect Tomato and Plant Support

Made of Heavy Galvanized Wire



\$1.75 per Dozen

\$12.00 per 100

THE MODEL
TOMATO SUPPORT.

Height complete	34 inches
" of bottom section	24 "
" " top	12 "
Diameter of circle	14 "

MANUFACTURED BY

226 North 9th St **ICOE BROS.** Brooklyn, N. Y.

HORTICULTURE

Vol. III.

MARCH 3, 1906

No. 9



STROBILANTHUS ANISOPHYLLUS

Devoted to the
**FLORIST, PLANTSMAN,
LANDSCAPE GARDENER**
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00

Three Sterling Carnation Novelties

Winsor, White Enchantress, and Helen M. Could

There is nothing about any of these varieties that we wish to conceal; therefore, we cordially invite all carnation growers to pay us a visit. Come at any time.

WINSOR—Winner of Lawson Silver Medal.

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HORTICULTURE

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Winter Flowering Sweet Peas

Perhaps I have said enough of late about winter-flowering sweet peas yet I know that those interested in these flowers will welcome anything that may tend to further enlighten them. The object of these remarks is merely to show what is being done at present by Anton C. Zvolanek, a specialist in this line. I had told the readers of HORTICULTURE that the time was not far off when we would see the colors of the summer-flowering soils embraced in the early-flowering varieties. I could see for myself that this was quite possible as I had made a few crosses with the summer bloomers on the early-flowering sorts, from which I got several varieties with the early-flowering habit and the colors of the summer-blooming ones. I had received seed of some hybrids from Ant. C. Zvolanek which I described in a recent issue of HORTICULTURE. Having had an invitation from Mr. Zvolanek to come and see his peas growing I betook myself to Bound Brook, N. J., one day recently to see for myself what he was doing. It was really a treat to meet this gentleman, as I knew he was heart and soul in sweet peas, while I was, perhaps, equally enthusiastic, but I was not prepared for the sight that met my eyes on entering the greenhouses—whole beds of new varieties in separate blocks of each color, all the picture of health and full of bud and bloom. I



EARLIEST OF ALL—At Wm. Sim's



MONT BLANC—At Wm. Sim's

took a list of some of these that I considered the best commercially. They were as follows:

Wm. J. Stewart, soft blue; Mrs. Alex. Wallace, lavender; J. K. Allen, spotted pink on white ground; Enchantress, salmon pink; Jack Hunter, yellow; Mrs. C. Wild, carmine; Meteor, scarlet; Christmas Captain, blue; Helen Gould, violet mauve on white ground. There were large blocks of Florence Denzer and Christmas Pink. Improvements could be seen in the hybrids blooming for the first time. Mr. Zvolanek is certainly doing a great work which will soon be appreciated by all lovers of the sweet pea. I stayed the greater part of Sunday with Mr. Zvolanek arriving in Boston Monday morning after one of the most enjoyable and profitable days I had ever spent.

William Sim

New Sweet Peas

No flower has risen so rapidly in popular favor as the sweet pea has during the past few years. It is now the flower of the million—a favorite with rich and poor alike. It is so easily grown, and there are now so many beautiful varieties to be had, that its rapid rise in popularity is not to be wondered at. It makes a grand show in the border, while it is one of the most attractive flowers for the house. Even the rose is hardly paid more homage than the sweet pea in its season. There is now a special society devoted to its welfare, and annually there is an exhibition of sweet peas in London, from which all other flowers are rigidly excluded. It occupies an increasingly important position in trade catalogues, colored plates are circulated of the best new varieties, and everything is done that can be done to increase its cultivation.

The wonderful variety of coloring represented by the sweet peas of today doubtless accounts largely for their extraordinary popularity. Every season there are fashionable colors, and colors that are not fashionable; thus the flowers whose color range is limited drop out of fashion for certain periods. The sweet pea has such a wide color range, however, that it is never neglected. If one variety is dropped its place is easily taken by another of a different shade of color. Several remarkable new varieties were exhibited last year (1905) for the first time, and the most striking of all is the one shown in the accompanying supplement—Henry Eckford, named in honor of the late Henry Eckford, founder of the famous firm of sweet pea specialists. This is undoubtedly the novelty of the season. It is very free flowering, of vigorous growth, and the color

is beautiful and unique. There is certainly no other sweet pea like it; it was recognized as quite a new color break among sweet peas. It has received high honors, an award of merit from the Royal Horticultural Society, and a medal for the best novelty of the year from the National Sweet Pea Society. All who have seen Henry Eckford sweet pea have admired it for the size, shape, and coloring. It says a good deal for Messrs. Eckford's opinion of its merits that they chose for it the name of the head of their firm.

Evelyn Byatt is a handsome new variety sent out by Watkins & Simpson, Covent Garden, London. It somewhat resembles the older variety Gorgeous, but it is of more rich and brilliant coloring. It is not a large flower, but what it lacks in size is amply compensated for by the fine color.

Queen Alexandra is a new variety with an excellent reputation. It is a good deal similar to Scarlet Gem, but Eckford says that the flower does not scorch in the sunshine as the latter is apt to do. Scarlet Gem, although a beautiful sort, is often disappointing, especially in a hot dry garden on account of its flowers getting scorched. If Queen Alexandra is as valuable as it is reputed to be, then it will be a novelty worth having.

Helen Lewis and John Ingman are two lovely varieties of the Countess Spencer type of flower. Helen Lewis was honored by the Sweet Pea Society last year. The standard is rich orange-salmon, and the wings are orange tinged with rose. John Ingman, which received a first-class certificate in 1904, is described as rose-magenta, flushed with crimson.

Sybil Eckford (pink and cream); Phyllis Unwin (a rose-carmine form of Gladys Unwin); Helen Pierce (mottled with bright blue on a white ground); Bacon (carmine and cream); Mrs. Hardeastle Sykes (pink, Countess Spencer type); and Codsall Rose, a large rose-colored variety, are other good new ones. All the above were exhibited in 1905 for the first time, and are therefore only offered to the public this spring. The particulars given are therefore from the raisers' descriptions, for gardeners have not yet had an opportunity of testing their merits. There is no doubt that most of them are very lovely, and if the plants prove as satisfactory as the flowers are beautiful, they will be grown in every garden when the seeds are cheaper.

There were some excellent sorts sent out in 1905, the best being the following:

Black Michael. This is a new shade of maroon, but it is doubtful if it will ever supersede those two splendid maroon colored sweet peas, Black Knight and Othello.

Gladys Unwin. This is a lighter shade of pink than Countess Spencer, and is said to fade in color when cut. It is not unlike Countess Spencer, which is generally admitted to be better colored.

David R. Williamson is a really good dark blue sweet pea. It generally bears at least three blossoms on a stem, and the stems are long and strong.

Romolo Piazzani too bears three blossoms on a stem, which is unusually long, thus giving the variety a considerable decorative value. When the blooms first open they are mauve rather than blue, but soon develop into the truest blue color yet seen in the sweet pea. The sweet peas Florence Molyneux (rose flaked), Mrs. H. Kendal Barnes (apricot-colored), and Mrs. George Higginson, Flora Norton and Miss Philbrick, all pale blue, are other really good varieties.

Strobilanthes

The genus *Strobilanthes* has about 180 species, but there are only about three species that are cultivated in our greenhouses. They come from the East Indies and grow very satisfactorily in an intermediate house, say from 50 degrees to 55 degrees Fahr. The most showy species at the present time is *Strobilanthes anisophyllus*. It grows about 3 ft. high and has very graceful branches. The pleasing lavender colored flowers which are produced in great abundance are over an inch in length. The plants last in bloom about four months.

Another species very nearly related to the above is *Strobilanthes isophyllus*. It is a more compact plant but has not the graceful habit of *S. anisophyllus*. As they bloom at the same time *S. isophyllus* makes a good companion to the other.

They are not new plants by any means but have been in cultivation for over half a century and used to be grown under the generic name, *Goldfussia*. It was very amusing at a recent exhibition in Boston where these plants were shown how many of the old gardeners had forgotten these old plants, and many of them asked the writer "If he knew what these pentstemon flowered plants were." This is only another instance where botanic gardens show their usefulness in preserving from oblivion plants that were once common. Although the flowers look like pentstemon flowers they do not belong to that family but to the closely related *Acanthus* family.

These plants are well worth bringing back into common cultivation again and given a place where easily grown and floriferous plants are needed. I have no doubt but any of the above species if grown well would make a desirable addition to our florist winterflowering plants. Not only this but I think they would make charming window plants for amateurs who could grow them and flower them in a good sunny window. What would be more graceful and pleasing in a window than a nicely grown plant of *S. anisophyllus*? The cultivation is very simple. It is desirable that they should be grown from cuttings each winter or spring. The tips of young branches when made into cuttings root very easily. In two or three weeks they are rooted and ready to pot into small thumb-pots. Out of thumb-pots they can be shifted into four-inch pots using any ordinary potting soil. About the end of May they can be planted out into the garden where they can stay until the middle of August when they will be large enough for six or seven inch pots.

During the summer they require frequent pinching to make them into bushy plants. Discontinue pinching after the third week in August; this will give them ample time to make long, graceful flowering branches. Give them plenty of water during the summer. When the night begins to get cold take them back to the greenhouse. When potting use a compost of fibrous loam with plenty of leaf-mold.

The other species that is grown is of more recent introduction and is known as *Strobilanthes Dyerianus*. This is one of our finest foliage plants but requires more heat than the other species. In a hot dry summer and in a position where it will get plenty of sunlight this makes a charming bedding plant. If the summer is wet or cold the leaves fail in their brilliant colors.

Harry H. Thomas

London, Eng.

Robert Cameron

Are the Tendencies of Vegetable and Animal Life Toward Perfection or Degeneracy?

We hear of late a great deal about natural forces propelling every living thing onward and upward to more perfect conditions. Luther Burbank, referring to natural selection says, "We see this natural selection in all life every day around us. But this is but one of the many forces at work in the upward, outward, and onward movement of life." But the seeming wonderful progress towards perfection is simply the results of the stimulants of culture, environment, hybridizing, and selection, which are wholly artificial and not natural forces. Mr. Burbank further says, "The life forces in their march meet obstacles around, under, over, and through which they must pass"; again, "The life forces may be compared to a river constantly pressing forward." Mr. Burbank certainly deserves credit for ascribing to natural forces the improvements he has made when he might justly have claimed them for himself. I must say that in my experiments I have never recognized the tendency of natural forces to perfection, but towards degeneracy; and that I can but regard the present condition of all vegetable and animal life as a struggle for existence, and that all the improvements that have been made are but artificial, and that retrogression to former conditions would soon follow if the improved conditions, care, and culture were withdrawn. This retrograde movement or tendency is sometimes described as running out. Some vegetables, and the Baldwin apples are said to be running out, which condition is simply the result of neglect or climatic changes, and are not held up by natural forces.

There is a limit to the improvement of all species and varieties. Some thirty or forty years ago there was exhibited at the rooms of the Massachusetts Horticultural Society two clusters of Concord grapes; one weighed two lbs., the other two lbs. two ounces. That I regard as the limit for the Concord grape, beyond which I have doubts that it will ever pass. This remarkable exhibition was the result of care and culture, and not of natural forces. I have a Concord vine growing practically wild, and it would require eight of its clusters to weigh

one pound. Of course there may be produced by hybridizing, crossing, and selection, a new variety that may surpass the older ones in hardiness and excellence of quality. There may also be mutations or new species developed of a sudden, and not through long years of evolution as Darwin supposed. There are too many missing links in that theory and it is very doubtful if any new species have ever been created in that way. These new varieties and species will also have their limit, beyond which they cannot pass, and no natural forces will attend them to ensure a perpetual onward and upward course. In the breeding of new varieties there is no certainty of improvement. There are a great many blanks to one prize and the time will surely come when the inhabitants of this earth will be obliged to be content with products inferior to what we now have.

There are elements of decay in the improvements we make. Our domestic fowls have lost the use of their wings as means of escaping danger and would soon be destroyed if turned out to shirk for themselves, and the bovine is being robbed of its horns, its only means of defence. Hybridizing is now extensively used for the improvement of fruits, flowers and vegetables; but hybridizing tends to sterility and a large per cent. of hybrid blossoms are imperfect and in many cases the power of reproduction is lost, as in the seedless oranges and grapes. Hybrid oranges in some cases were nearly all seedless. After all, this so-called improvement is largely a matter of point of view. The epicure desires more and better meat from the animals, and more pulp from the fruits, while the naturalist prefers to view things in their natural state and regards the forced conditions as simply distortion, and ruinous to the welfare of plants and animals. But the animals and plants are grown for a purpose, and the methods of production best calculated to suit that purpose are the methods that will be adopted, regardless of consequences. Whatever the methods that may be adopted I hope no one will sit down and expect natural forces to do the work.

R. B. White

Do Varieties Deteriorate?

I was very much interested in reading Mr. Gilbert's article under this heading in your issue of Jan. 27.

I am of the opinion that they do deteriorate and am just as strongly of the opinion that they do not. I believe that it is simply a matter of selection, cultivation, and location. Select poor cuttings or seed, plant them in improper soil, location, or climate, and add poor cultivation and any variety will deteriorate; reverse these conditions and keep it up year after year and I believe that a variety will improve and keep on improving indefinitely.

A visitor at the Carnation Society's convention, Mr. Shand of St. John, N. B., told me that Marie Louise violet grows luxuriantly with him and that violet disease is there unknown. He made no claim to any special cultivation but attributed his success to the climate. I am doubtful if there is a healthy plant of this variety in the vicinity of Boston.

I had been accustomed to see fairly good specimens

of Lombardy poplar in Ontario and was surprised at their failure around Boston, but now at our Boston City Hospital can be seen several rows of fine robust specimens, perfect from base to top, and every one as good as its neighbor. They were planted ten years ago and I, at the time, predicted failure for them. But Mr. Robb had given the situation some thought. A tree of pyramidal growth was needed and he thought the cool, damp bottom of the hospital would be suitable for them. So far his conclusions have been correct. They are more and more beautiful every year and are far from showing any signs of deterioration. They certainly look as if they were made for that location.

Geo. M. Anderson

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

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Telephone, Oxford 292

WM. J. STEWART, Editor and Manager.

"The most unkindest cut of all" The cut flower commission man can now sympathize with the carnation novelty introducer, who is getting a taste of what it feels like to be called bad names.

Hitherto the commission man has been the stock rascal of the business but, judging from the various communications recently published by some of our contemporaries, this distinction is in danger of shifting from the commission man to the wicked carnation man. We shudder as we think of the tricks that are practiced, the giant humbugs turned loose, the wilful deceptions that shake confidence and forebode fearful things, but are glad to still feel that our friends of the Carnation Society don't really mean all they are saying about one another and that there will be no funeral.

For the advancement of the rose

That the approaching meeting and exhibition of the American Rose Society at Boston will do much to stimulate activity and open up new spheres of activity in rose breeding, rose culture under glass and in the open, and awaken fresh interest in the Queen of Flowers as a decorative subject, no one can doubt. The prize schedule of the Rose Society is liberal and comprehensive and will undoubtedly bring out a remarkable display. The spring show of the Massachusetts Horticultural Society, always a scene of rare beauty, to be held at the same time, should prove a further incentive to a large and representative attendance from far and near and insure the transaction of business at the sessions of the society of far-reaching importance to the rose and the rose grower.

A course of study in landscape work

The Gardeners' and Florists' Club of Boston contemplates the inauguration of a course of study next season in the fundamentals of landscape construction work for gardeners who wish to perfect themselves in this branch of their art. For

the lack of a proper working knowledge of plan drawing, road building, etc., many gardeners, otherwise fitted to attain great eminence, have been forced into obscurity by landscape architects, many of whom possess only a very superficial knowledge of plants and their adaptations. The proposition to provide the ambitious gardener with the technical instruction he stands so much in need of is one worthy of Boston and is certainly well timed, for there are in this section of the country many young men of ability and promise to whom the acquirement of an education on the lines proposed will be the stepping stone to a position of honor and distinction in their future career. We hope the plan will be put in operation and that many will take advantage of it.

Plant retrogression and the plant breeder

Our readers are hammering away at the old but very timely question as to whether varieties deteriorate or not and some valuable lines of thought are being opened up. We are not quite sure that all are agreed in the premises as to what constitutes deterioration. When a variety takes advantage of the discontinuance or modification of the forces or conditions which have contributed to the development of abnormal qualities to gradually revert to its natural form the process may be deterioration or it may be the reverse, according to the standpoint from which one judges and the special purposes for which the plant is valued. Fortunately this tendency towards original forms as soon as control is relaxed can be depended upon to provide a wide and ever-fascinating field for the enthusiast. Perhaps there is no department of horticultural industry from which the substantial returns are so meagre in proportion to the intelligent labor and application expended as that of the plant breeder and improver. His work has been likened to a lottery in which the blanks are many and the prizes few. If the charm of mystery and the zest of discovery were not fully as potent influences as the hope of pecuniary reward, advancement would be slow. Our debt to the patient hybridizer is much greater than we realize.

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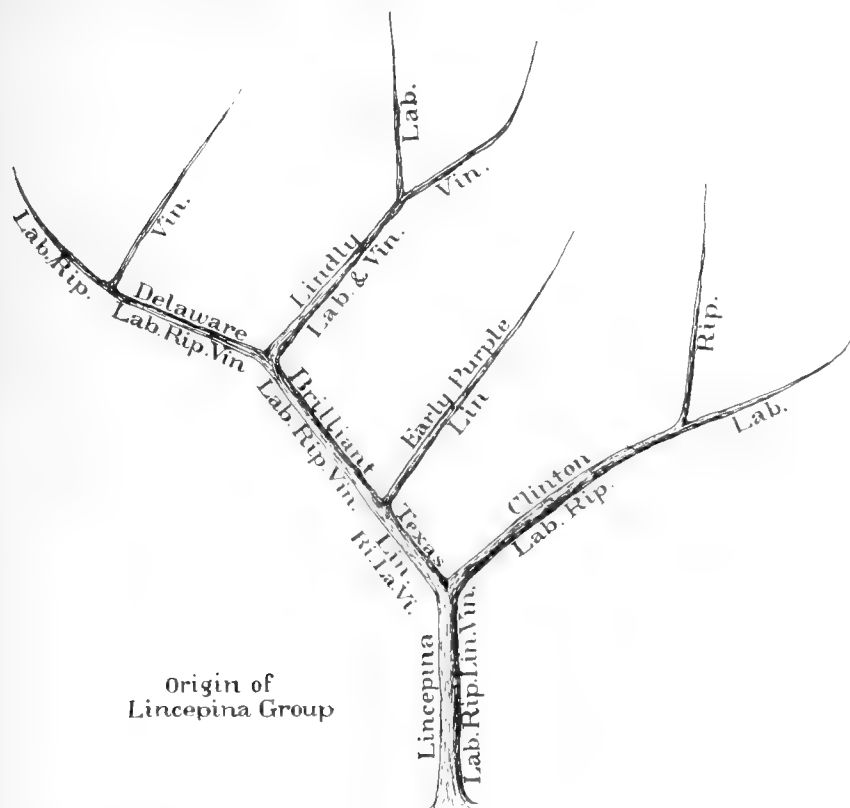
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Good Customers

THE Lincepina GRAPE.

Origin of
Lincepina Group

The Lincepina is a new grape recently originated by the writer and, as will be seen, by the accompanying diagram, is composed of several varieties of the following species, viz.: *Vitis Labrusca*, *Vitis vulpina*, *Vitis Lincecumii* and *Vitis vinifera*, a foreign grape.

The name Lincepina is a combination of *Lincecumii* and *vulpina*. When the cross was made, the mother vine was supposed to be a pure *Lincecumii*, and the male parent, the Clinton, is regarded by most botanists as pure *vulpina*, and by some as a hybrid of *vulpina* and *Labrusca*. But since the cross was made it has been found, as

shown by the accompanying diagram, that the mother vine has in its make-up the blood of the Delaware, Lindley and Brilliant, all red grapes, which fact explains or accounts for the color of Lincepina, which is red, while both parents are black.

The Lincepina is the most beautiful grape that the writer has ever seen, of rather dark red color and covered with lilac bloom. Its clusters and berries are large, and its quality is pure and sprightly, pulp tender to the center, and so transparent that when held up to the light the seeds are plainly seen.

M. B. WHITE.

PERSONAL.

Wm. Duckham, of Madison, N. J., returned last Monday from his trans-Atlantic trip, hale and hearty.

Chas. Loechner of the Yokohama Nursery Co. and Mr. Outerbridge of Henry & Lee were recent callers in Toledo.

Henry Eberhardt of Catonsville, Md., has sufficiently recovered from the injuries received last July to be able to give his attention to his business.

James B. Kidd, formerly with the Cox Seed Company, San Francisco, has taken a position with the Yokohama Nursery Company, New York City.

J. L. Schiller is now back from the hospital and has taken up his work in Toledo again. The Florists' Club sent him flowers regularly during his illness.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

WHOLESOME CHESTNUTS.

Either make a trellis to grow tomatoes on or provide stakes for supports. Leaving them lying on the ground is a barbarous method, benefiting only the crawling creatures that eat parts of them.

Whenever the weather is suitable keep busy in the garden. If any digging or trenching remains undone do it, but work at it only when the soil is dry. It makes bad digging and disagreeable work when the soil is wet.

Make a careful plan beforehand of the garden, dividing it into plots, then decide what is to be planted or sown in each plot, and when planting time comes begin at one side of the plot, leaving space for successive sowings or plantings. This method will not only save time but it will also make the garden look more ship-shape, I should perhaps say garden shape.

ASTILBE DAVIDI HORT.

Translated from "Gartenflora," Berlin, by G. B.

This charming astilbe grows frequently in the Mongoly and in Japan on the river banks in the mountains. It was discovered in 1864 and by Franchet classified as a variety of *Astilbe chin.* Max. Franchet recognizes three forms of *Astilbe chinensis*:

(a) *Typica*; petals lilac, on the ends obtuse; flowers in thick clusters—native of China.

(b) *Japonica*; petals white, on the ends somewhat broadened and obtuse—native of Japan.

(c) *Davidi*; petals lilac, lineal, on the ends not broadened, but pointed; flowers in thick clusters—native of Mongoly and Japan.

This last is a strong growing perennial with elegant spraylike foliage and graceful upright flower stalks from 4 to 5 feet high. The color of the flowers is a deep rose violet or purple-red. The leaves spring from the roots, threefold feathered and double feathered, of bronze-green color when young. At maturity they become light glossy green. It resembles at that time much the well-known *Astilbe jap.*, only its foliage is larger. The large flower stalks measure two to two and a half feet in height.

In 1902 the plant got a first-class certificate from the Royal Horticultural Society in London, being introduced by Messrs. James Veitch & Sons. On account of its close relation to *Astilbe jap.* it may prove a valuable forcing plant, especially if hybridizers should succeed in developing the color of the flowers to a little livelier red. This remarkable perennial is not fastidious as regards culture but flourishes in any good moist soil; plenty of sunshine is not harmful, providing the beds are kept evenly moist.

SYRINGING ORCHIDS.

Editor HORTICULTURE:

Mr. E. S. Rand in his "Orchid Culture," says that cattleyas should never be watered or sprinkled on the leaves and on the bulbs. I should be much pleased to hear from some one in regard to this.

Also, is a hygrometer a good thing to have to ascertain the moisture of the house?

Very respectfully,

M. R.

The above statement, by whomsoever expressed, is absurd. Neither cattleyas, nor any other orchids can be grown successfully without moisture on the leaves. We only need to remember the forests where the cattleyas grow in a wild state, where they are frequently drenched with rain, to realize that they need it in culture also.

A hygrometer is a good thing to have to ascertain the moisture of a greenhouse.

JOHN E. LAGER.

WHAT THEY SAY OF US.

Inclosed please find check for my subscription for one year to HORTICULTURE. I enjoy reading it and wish it all possible success.—R. M. M.

Please find enclosed one dollar for HORTICULTURE to January, 1907. The paper has a prosperous appearance and I hope will continue to grow.—N. M. S.

NEWS OF THE CLUBS AND SOCIETIES.

BUFFALO FLORISTS' CLUB.

The regular meeting of this Club was held at W. F. Kasting's Hall, on Tuesday, February 27. Officers for the ensuing year were elected as follows: President, Louis Neubeck; vice-president, H. J. Wise; secretary, W. J. Peake; financial secretary, E. C. Brucker; treasurer, Chas. Keitsch.

After a number of applicants being elected to membership, and the regular routine of business transacted, adjourned to the flower show which was one of the best carnation exhibits at any meeting of the club. The exhibition was in charge of Charles Keitsch. There were not only carnations but roses, mignonette, sweet peas and a collection of cyclamens. The judges, Wm. Scott, H. J. Weiss and C. T. Guenther reported as follows: Winsor, exhibited by F. R. Pierson Co., scored 92 points; Helen Gould, by the same, 80; J. Haines, by the originator, 89; My Maryland, by Weber & Son, Oakland, Md., 88; Jessica, by the same, 92; Light Pink Lawson, by W. J. Palmer & Son, 81; Glendale, by Vesey & Co., 84; J. A. Valentine, by the Chicago Carnation Co., 84; Skyrocket, by the same, 86; Imperial, by the same, 88; Seedling No. 49, scored 84. Outside of the new varieties the Chicago Carnation Co., exhibited Mrs. Patten, Glendale, Haines, Prosperity, White Lawson, Red Lawson, Pink Lawson, Lieutenant Peary, Cardinal, Crusader and Harlowarden. Wm. H. Ehmann exhibited Cardinal, Red Lawson, Nelson, Golden Beauty and Pink Lawson. The Scott Floral Co., vases of carnations and mignonette. Enchantress and Lawson from White Bros., Gasport, N. Y., Governor Walcott by C. T. Guenther of Hamburg, N. Y. Variegated Lawson from F. R. Pierson Co., also a collection of many varieties from Theo. Venneman, gardener for Geo. Urban, who had also a very fine collection of cyclamen. Four vases of sweet peas were received from Anton C. Zvolanek, Boundbrook, N. J. The Waban Conservatories sent an exceptional fine vase of Wellesley roses, also a fine vase of Kate Moulton was received from the Minneapolis Floral Co. Carnation Melody was staged by W. C. Hill Floral Company, Streator Ill., and H. A. Hart, Rochester, sent a white seedling.

The evening was completed by a banquet at which the members heard from Wm. Scott, as toastmaster. Also W. A. Adams, Chas. Keitsch, President Louis Neubeck, D. B. Long, Chas. Rooney, Hon. Geo. Urban and many others.

ROSE NIGHT AT PHILADELPHIA.

The next regular meeting of the Florists' Club of Philadelphia, will be held Tuesday evening, March 6, and will be known as Rose Night. All the novelties or new candidates for public favor among the Queen of Flowers are hoped for and expected, among them "Miss Kate Moulton" and "Queen Beatrice," or any other new variety of merit. Please bring same, or forward them prepaid by express, if not convenient to come with them, in care of Mr. David Rust, Horticultural Hall, Broad Street, above Spruce, Philadelphia, Pa.

EDWIN LONSDALE, Secretary.

KENTUCKY SOCIETY OF FLORISTS.

The Kentucky Society of Florists held the third carnation and rose exhibition last Wednesday, with a good representation, the following being the exhibitors: The H. Weber & Sons Co., Oakland, Md., choice blooms of Jessica and My Maryland; Backer & Co., Billerica, Mass., mixed seedlings and sports; A. B. Davis & Sons, Purcellville, Va., Red Sport, a great shipper; W. J. & M. S. Vesey, Fort Wayne, Ind., Glendale; The Chicago Carnation Co., Johet, Ill., Skyrocket, No. 49, a good red; Daybreak, Red and White Lawson, Imperial, Fiancee and Glendale; R. Fischer, Great Neck, L. I., Abundance, also Freesia Purity; H. A. Jahn, New Bedford, Mass., No. 49, a fine white, which traveled unusually well, also two good crimsons, Nos. 43 and 7; Fred Boulon & Son, Sea Cliff, N. Y., Long Island Beauty, a very good shipper, also Princess of Wales violet; John E. Haines, Bethlehem, Pa., John E. Haines, the favorite in its color; John Reimels, Woodhaven, L. I., Winsome, a light pink, which no doubt will do what its name implies; Indianapolis Flower and Plant Co. and John Hartje, Indianapolis, Ind., Candace, a beautiful pink; Minneapolis Floral Co., Minneapolis, Minn., the rose which made the hit, Miss Kate Moulton; H. R. Carlton, Willoughby, O., the beautiful new violet, Gov. Herrick; Mrs. C. B. Thompson, violets, lilies of the valley, Beauty and Chateaux roses; Louis Kirch, Mrs. T. W. Lawson, Lady Bountiful, Enchantress and Flamingo; C. H. Kunzman, Mrs. T. W. Lawson, Prosperity, Lady Bountiful, Enchantress and some very good seedlings, also lilies of the valley; Leo Zoeller, Enchantress, Mrs. Joost, Mrs. E. A. Nelson, Mrs. T. W. Lawson, also some white; August R. Baumer, Mrs. T. W. Lawson, Enchantress and Nelson Fisher; Jacob Schulz, Cardinal, Enchantress, John E. Haines, Mrs. T. W. Lawson, Variegated Lawson, Lieut. Peary, Lady Bountiful, Bride and Bridesmaid roses, forget-me-nots, mignonette, Marguerites, lilies of the valley, antirrhinums, sweet peas, and pansy plants.

The next meeting of the Society will be held Tuesday, March 6.

NASSAU CO. (N. Y.) HORTICULTURAL SOCIETY.

The February monthly meeting of this society was held on Wednesday, 7th inst., at the usual place. President Harrison occupied the chair. The meeting was well attended. Two active members were elected and three proposed, also one honorary member. Preparations for a fall flower show were begun. Already one silver cup has been presented for competition, to be placed on carnations.

A choice assortment of well-grown carnations was exhibited by S. J. Tress, Glen Cove, also two pots of cyclamen, which were exceptionally fine, receiving the society's certificate of culture. The same gentleman exhibited a vase of his fine seedling carnation, "Maxwellton." It is a pure white, of good size, substance and shape, and looks like a "taker." More will certainly be heard of it. Mr. Conine, Connecticut, was a visitor and made some appropriate remarks.

COLUMBUS FLORISTS' CLUB.

The regular second meeting for February took place last Tuesday evening in the club's rooms at Iroquois Hall. The attendance was very creditable, and the members present were very much interested and took active part in the various matters under discussion. Vice-President V. P. Curry was in the chair, and Secretary James McKellar attended as usual to the records. The topic of the evening, in which the greatest interest centered, was the arranging for the annual distribution of flower seeds to the children of our public schools. It is the custom of the club to annually purchase suitable flower seeds for school gardens and home use, and through the head masters of the schools distribute them to the children who show an interest in things horticultural. The children pay one cent for each packet of seed they receive. The plan works famously, and is doing much good in our city. Last year the children of nineteen schools were supplied with seeds, and this season the demand seems steadily growing. The matter of a chrysanthemum show this fall was discussed; our members are very enthusiastic over it, as last autumn's success was so encouraging. There was a free discussion on this subject, and the members seemed to be in the fullest accord in the matter. Messrs. Stevens, Curry, McKellar, Woodrow and Seiber gave their views.

TOLEDO FLORISTS' CLUB.

Great interest was shown at the last meeting of the Florists' Club in the forthcoming big quarterly meeting of March, with which a small exhibition of cut flowers, etc., is to be connected. It was first intended to have this exhibit in the club room, but after more consideration it was thought advisable to find an unoccupied store in a rushing neighborhood, so the public may have a chance to look at it. President Bayer was chosen to hunt up a place. A special meeting will be called soon to settle all final arrangements. Mr. Hasselman staged Candace, the new Dorner & Son sent a box of White Perfection; both were much admired, but when Krueger Bros. of our town unfolded their new pink sport of Enchantress, of which they have just two plants, it was a genuine surprise.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY.

A meeting of the society was held on Tuesday evening, Feb. 20th, in their hall in the Courier Building, with a very large attendance of members. The feature of the meeting was a paper, read by Walter Angus of Chapinville, on the chrysanthemum. Mr. Angus went thoroughly into his subject, from the cutting bench to the exhibition specimens. After the close of the meeting a smoker was enjoyed by the members. Ralph Booth, the comedian, entertained with songs and stories and there were several songs and addresses by the members. The meeting closed with all singing "Auld Lang Syne." At the next meeting, March 6th, John N. Champion will give an address on cut flowers.

THE CARNATION OF TODAY

(A paper by Robert Craig, of Philadelphia, presented to the Horticultural Society of New York on Feb. 14, 1906.)

The carnation, as grown today, is almost exclusively a florists' flower, and hybridizers have been breeding to improve this strain, but there is a wider field and an important field for them—the development of garden carnations hardy enough to live through the winter without protection, in the latitude of Philadelphia and New York, and with the quality of blooming through the summer. The discussion of this idea might form a lengthy paper in itself, so I will confine my remarks to varieties grown under glass for winter bloom.

It would not be wise for me in view of the fact that at the present time the literature of the carnation is so voluminous, to attempt to give you a comprehensive and detailed history of the wonderful flower, as we know it today, and as we see it here on the tables tonight.

There is more space in the gardening papers devoted to the carnation than to any other plant or flower. The minutest details as to soils to be used, and methods of culture to be observed, as well as criticisms and descriptions of new varieties as they appear, with histories of the achievements of each in the competitive exhibitions throughout the country, with able discussions on the ancestry of each pedigreed variety; its vigor of constitution or lack of it; its freedom of bloom or its failure to have this very desirable quality; its desirable habit of commencing to bloom early in the fall, or its undesirable tendency to defer blooming until a later period. Detailed and frequent information on every thing pertaining to carnations is so easily accessible that every one interested must have his desire for knowledge almost fully satisfied, as far as the printed page can give, and little further can be learned except by personal culture of the plant, which occupation I recommend to every amateur as one of the most charming that can engage his or her attention. So, I feel that if I am to interest you tonight, it may be by a brief expression of my thoughts as I review my experiences of the past forty years, with mention of the most famous varieties which have appeared from time to time, remaining with us until they were either overtaken with disease or were displaced by better varieties of similar color and character. Of the hundreds of sorts introduced in that period I will speak in about the order of their introduction, and of each color separately, so as to bring clearly to your minds the wonderful improvement which, notwithstanding many failures, has gradually been made.

Improvements Maintain Interest.

The frequent appearance of improved varieties is the principal factor in maintaining the lively interest in the carnation; there is always something to be said about a distinguished new-comer and comparisons to be made with those that have preceded it. Scarcely a year passes by without bringing us one or more real improvements; other kinds of plants and flowers, with the possible exception of the chrysanthemum, do not appear to be so susceptible of improvement.

Take the rose, for instance, particularly the varieties which are forced for cut flowers; we see few changes for the better. Bride and Bridesmaid have remained for many years the leading teas, and the peerless American Beauty has had no rival for a quarter of a century. It is true that quite recently there have been introduced several good forcing roses, Liberty, Killarney, and, last, the very valuable Richmond rose. The latter is destined to be very largely grown; all honor to E. G. Hill for the Richmond. * * * He is now raising rose seedlings, has thousands on the way, and with the experience of so many years to help him, is almost certain, soon again, to give us something we will all be proud of.

But we cannot hope to get good, new roses as frequently as carnations; it is not in the wood. Take, again, another class of plants, the palms, so deservedly popular as house plants. Nothing new appears at all equal to the old-time kentias and arecas. New palms, it is true, are introduced from time to time, but none equal to those which we have had so many years.

While the constant introduction of new carnations is very interesting and fascinating, it is alas, true, that where we get one real improvement, there are several introduced with exaggerated praises which are practically worthless. But it will be more difficult in the future to send out poor or mediocre sorts: the trade is becoming more and more critical and the National Carnation Society is doing all it can to prevent the introduction of inferior sorts. If there be a really good sort ready for the market, this very critical inspection and wide publicity will only serve to advertise its merits and increase its sale.

The First Valuable Carnation.

The first valuable carnation to come under my notice was La Purite, which is generally spoken of as of a deep pink color; it was rather a carmine with violet flame. The shade was very pleasing. It was imported from France in 1858; in 1862 my father bought one plant which cost \$2.50 and proved to be a good investment, as it was of easy propagation, and two years later we had a good stock which was in brisk demand at \$20 per hundred. I once heard the late George Wilson of Malden, Mass., who was a very successful florist, say that the best investment he ever made in floriculture was the purchase of fifty plants of La Purite at \$5 per plant. This was probably in 1861. This carnation was for fifteen years or more the most largely cultivated of the time. It was very productive, I have seen a house of it at the late Wm. Bennett's at Flatbush, which had on every plant from seventy-five to one hundred as he grew it, but it came to pass after he had grown it so well for a number of years, it was attacked by stem-rot, and on calling at his place one day early in the winter, I found more than one-half the plants dead. It was so attacked with more or less virulence, in all sections of the country and, I believe, the once grand old

variety is now extinct. I last saw it at Karl Muller's place in West Philadelphia, about fifteen years ago. This fine old German gardener managed to grow it successfully five or six years after it had generally disappeared. The blooms of La Purite were about one-third the size of our now famous Enchantress, and the mental comparison between the two is to me very interesting. No carnation has had, as the theoretical men say, such a long run on the stage as La Purite. Its successors in the deep pink class were Tidal Wave and Thomas Cartledge, both useful, but Tidal Wave attained the greater popularity.

The Light Pink Class.

Of the light pink class there have been several notable ones. Grace Wilder, introduced by Mr. Tailby, was a very useful variety, for many years the best of its color. Later, we had the famous Wm. Scott, and if Mr. Dorner had done nothing else, he deserves a monument for raising and introducing this. It came out at the same time as Richmond and Albertini, both of which excelled it on the exhibition table, but both fell so far behind it in productiveness that they were soon dropped, while Wm. Scott for many years had no successful rival, until Mrs. Frances Joost appeared. Later, we had Nelson and Genevieve Lord. The famous Lawson then appeared. The introduction of this variety gave a greater impulse to carnation growing than any variety before or since. In many respects it was superior to anything preceding it; it was brilliantly advertised, and best of all, justified every claim made for it. It made Peter Fisher's name a household word in carnation circles, and when he introduced Enchantress, saying that it was better than Lawson, there were many doubters, but Peter was right. We hope he may live to give us more as good or better. The parents of Lawson were Tidal Wave (locally known as Van Leeuwen) and Daybreak, which latter was a distinct and valuable break. Out of Lawson have come several famous sorts, Enchantress, Mrs. M. A. Patten and Nelson Fisher; and Mr. Fisher has a brilliant red on the way. It is certainly a rich strain of blood.

And we are ready for another one of this color. Helen Goddard bids fair to be a winner, and when Helen Gould and Winsor are introduced next year, particularly Winsor, they will certainly prove valuable. I am in love with Winsor; it is just the shade of pink that is wanted, has a vigorous constitution, a fine, stiff stem, and is very productive. I have had no opportunity of seeing Carla—a western variety now being disseminated, but I have heard it well spoken of by competent persons.

Another shade of color which has not very popular may be called very light pink. The first one of these that I was familiar with was Miss Joliffe, a light flesh, tinted with salmon. I knew it well thirty years ago as the best of its class. Later we had Daybreak. This was a very valuable variety, with flowers larger than any which had preceded it and with, for

that date, wonderful, long, stiff stems, and of a very lovely light flesh shade, and unusually productive; for many years the best of its class, but it finally succumbed to disease and was displaced by Fair Maid and Enchantress, both excellent varieties. In fact, I think Enchantress the best carnation, all things considered, ever sent out in this country. It is still very popular, and as long as it continues to be as good as it is now, it will take a wonder, indeed, to displace it. It is a model in all that constitutes a good carnation, and raisers of new varieties should aim to get its qualities in their seedlings. What a boon a clear yellow Enchantress would be!

The Scarlet Class.

But I find my paper likely to take too much of your time, so in considering the important scarlet class, I will pass over them with brief mention. What a demand for this color at Christmas, it goes so well with the holly berries, the cheerful chimes and the general joy! Century was raised in 1878 by the late Charles T. Starr, and while more of a carmine than a scarlet, was very bright and was very useful until the advent of John Thorpe's Portia, which was a brilliant scarlet, and very largely grown for many years. Its color has never been excelled; it was very productive; lack of size was its greatest drawback. Then we had in rapid succession Lady Emma, Alegatiere, Garfield (this is the variety that Donald McCallum called Robert Craig, thinking he had a sport, but after being considerably grown as Robert Craig, turned out to be Garfield), then Estelle, still grown in some sections; G. H. Crane, for years a good one; then America, Adonis, and finally Cardinal. This has proved to be a good one in the western states, but has, so far, hardly come up to expectations in the east; in fact, it has been a great disappointment, producing a large percentage of worthless blooms.

The White Class.

Now, we will briefly consider the white class, so largely used for funerals, weddings and in general floral work. The oldest white one that I know was President Degraw, imported from France about the same time as La Purite, and introduced to commerce by the late lamented Chas. Zeller of Flatbush, the original carnation enthusiast of America, whose stock of more than fifty varieties I had the pleasure of inspecting some thirty-five years ago; carnation growing was in its infancy then. They were most grown in pots, although they were beginning to be planted by a few growers, mostly in solid beds and a few on benches, which is now the most popular way of growing. President Degraw had a long run, many years of popularity. Then came Peerless or Edwardsii, followed by Hinzle's White, Peter Henderson, Snowden, Silver Spray, a good one; Lizzie McGowan, none better in its time; Flora Hill, for a long time famous and still grown to a considerable extent; Glacier, Queen Louise, The Queen, Lady Bountiful, most beautiful (the greatest defect in this fine variety is the tendency to be a shy bloomer in the fall and early winter); white Lawson, and, finally, Lieut. Peary, which, I think, is the most valuable white to date. Yesterday is another

good one, and not as well known as it deserves to be; it is vigorous, early and continuous, very satisfactory with many growers. White Enchantress promises well. The Belle is a very good white with many growers.

In crimsons, which is one of the least important, commercially, we have had Black Knight, Louis Lenoir, Anna Webb, Crimson King, F. Mangold, Seawan, Gomez, Maceo, Daheim, Harlowarden and Harry Fenn; the latter two are the best in this class and are still cultivated.

White Variegated.

The class known as white variegated has been represented by a number of varieties; enjoying a large measure of popularity the best have been Hinsdale, a good variety extensively grown fifteen or twenty years ago. I never saw it better than at John H. Taylor's, Bayside, L. I. For several years he grew it in large quantity: Chester Pride; Variegated La Purite, a sport from the great La Purite; Mrs. Bradt and Lilly Dean, Olympia, Prosperity, M. A. Patten and Variegated Lawson. The latter two are the latest and best. Jessica, which is being introduced this year, looks promising.

In yellow variegated, we have had Astoria, introduced by Wm. Wilson of Astoria about thirty years ago, a fine variety in its day. Then came Chas. T. Starr's Buttercup, introduced to the trade in 1884, and the best one we have ever had; followed by Andalusia and Sunrise and Eldorado, which are now probably both out of cultivation. We need a good, new one in this class.

American Carnation Best.

Now, I have named in all the classes most of those that have been specially valuable in the past and those which are the best at the present time. I have also had the temerity to pick the winners of those being introduced this year. It is interesting to note that the early and free blooming qualities of the American carnation are beginning to be recognized by some of the wide-awake English growers. Among the kinds that have done well over there may be mentioned Enchantress and America. Fair Maid, The Belle and Harlowarden have done particularly well. I recommend our English friends to try Helen Goddard, and, when they are introduced, Winsor and Beacon. Although there is a lack of sunlight in England, the free-blooming American varieties produce some flowers in the fall and winter and in March, April, May and June bloom freely. As the London fashionable season runs into July, there is always a good demand for the blooms. The method of growing, heretofore, in England has been in pots, but the American method of growing on benches has been introduced. Mr. Ditton, one grower near London, has been quite successful.

One thing seems clear: The best of the American sorts are superior in productiveness to any on earth, and equal in form and color to the best anywhere. Although there have been many disappointments, the advances are surprising, almost bewildering, and it is to be hoped that those who have devoted so much time and thought to seedling raising may continue with enthusiasm in the good work and that the number of those

who are engaged may be largely increased, for when success comes to any, it may be enjoyed by all, both professional and amateur, who are willing to participate. We owe much to those who are willing to grow hundreds of seedlings and to test them at great expense for several years in the hope of occasionally getting one good enough to send out. The cool, calculating, sure-thing, business man is not likely to spend much time raising seedlings, but the intelligent enthusiast in the carnation field is always likely to become a benefactor to us all.

CLUB AND SOCIETY NOTES.

The first annual report of the Connecticut Forestry Association is in the hands of the printer, and when completed can be obtained of E. S. Geer of Hartford.

At the meeting of the New Haven Horticultural Society on the evening of Feb. 20, Walter Angus, gardener for H. & H. Scofield, delivered an instructive address on chrysanthemums. A smoker and supper closed the evening.

The Rhode Island Horticultural Society held its meeting in Falstaff Hall, on Feb. 21. The feature of the evening was a lecture by Prof. F. W. Card, on small fruits. A brief address was given by H. G. Breese, a noted fruit grower of Hoosick, N. Y.

The annual carnation exhibition of the Huntington Horticultural and Agricultural Society will be held in the trade school building, Tuesday evening, March 6. The schedule comprises carnations, roses, violets, and copies can be had from President Walter Shaw or Secretary A. H. Funnell.

The annual banquet of the New Bedford Horticultural Society was held in the Mansion House, on the evening of Feb. 21. Frank C. Barrows was master of ceremonies. President William Keith stated that the society had grown from 76 to 110 during the year. A vote of thanks was extended to Messrs. James Garthly, H. A. Jahn and Peter Murray for the flowers furnished for the decoration of the tables.

The Cincinnati Florists' Society will have a special exhibition of carnations on March 10, 1906. Prizes will be offered as follows: Best vase white, light pink, dark pink, red, variegated, respectively, 50 blooms each, 1st prize, \$5.00; 2d, \$4.00; 3d, \$2.00. Best vase seedlings, 25 blooms, 1st prize, \$4.00; 2d, \$3.00; 3d, \$2.00. 100 mixed, not less than 6 commercial varieties, 1st, \$8.00; 2d, \$6.00; 3d, \$4.00. Best general display, \$10.

OBITUARY.

Samuel Hartwell, a prominent fruit grower of Lincoln, Mass., died on Feb. 21, aged 72 years. His death was caused by pneumonia and followed the demise of his wife by but ten days. Mr. Hartwell was an active member of the Massachusetts Horticultural Society for forty years, serving a long time on the vegetable and fruit committees. He was a conscientious, kindly man and enjoyed in an exceptional degree the esteem of his associates in the horticultural society and his fellow townsmen. He held many official positions of honor in his native town.

CARNATION BREEDING

(C. W. Ward, Queens, N. Y., before the Pennsylvania Horticultural Society, Feb. 20, 1906.)

The Original Carnation.

The original carnation known to history for some 300 years before the Christian era was a five petal single bloom about one inch in diameter of a pinkish mauve color. In its original state it grew generally throughout the southern portion of Europe, being found in abundance in Normandy, France, whence it is believed by some historians to have been introduced into Great Britain. So recently as 1874 it was found covering the Castle Falsie in which William the Conqueror was born. It was described by Theophrastus as early as 300 B. C.

The Materials and Tools of the Present Day Breeder.

The present carnation with which we are working is the product of several centuries of culture and hybridization. It is an open-pollinated species and mother plants can be used from the hybrid plants as well as in breeding upon the same plants or upon the same variety. Once secured from seeds, a variety is easily perpetuated by propagation from cuttings which are secured in abundance and may be easily rooted. Improvements in varieties may be made in bud selection and bud variation as well as from seed variation due to hybridization. In raising varieties from hybridized seed, very few improved sorts are produced, the proportion being about one good variety for each 5000 hybrids grown according to present standard.

Up to the present time, I have been breeding for color alone, basing my work upon the theory that any laws developed in color work would hold good when applied to the development of other desired qualities.

The tools which I use in my work are very simple, indeed, consisting of a pair of delicate tweezers and a microscopic magnifying glass. The method employed is to find the anther just bursting so that the pollen is in a condition of dry powder. The anther is removed by means of the tweezers and the pistil of the flower desired to be fertilized is lightly touched along the entire length by the pollen bearing anther.

Color Classification.

In order to do my work with reasonable method, I have divided it into sections as follows: (1) Crimson section, comprising crimsons or scarlet maroon in color; (2) dark pink section, which comprises all rose, cherry and deep pink tones; (3) light pink section, which comprises the light salmon or day break tints; (4) scarlet section, which comprises all other colors which may be termed red or scarlet; (5) white section, comprising only the creamy white and snow white tints; (6) yellow variegated with scarlet, crimson or pink upon yellow grounds as the yellow varieties are al-

most invariably marked with pink, scarlet or some other tint; (7) white variegated section comprises varieties with white grounds and light pink, scarlet or crimson markings; (8) the blue section comprising varieties showing some tendency towards a blue in color. This last section has not as yet produced anything that might be termed a blue as invariably there is enough pink in the makeup of the color to shade the tone into purple or mauve. The crimson, dark and light pink, scarlet and white sections have been fairly well fixed, but the yellow, white and pink variegated, and blue sections will be very difficult to fix, as they are essentially mosaic and there is a constant tendency toward variation in all hybrids produced from them.

Origin of an Important Variety.

The bulk of my profitable varieties can be traced generally to the variety General Maceo, which was the result of a cross between the English variety, Winter Cheer, and Mr. Dörner's American variety, Meteor. The original plant of Maceo had a very peculiar habit, being almost a climber and was dug from the frozen ground after all supposed good sorts had been taken in from the field, its only recommendation being an intensely colored large bloom on a plant having a habit somewhat resembling a creeping grapevine in growth, but by selection from bud variations, it was built into an immensely profitable commercial variety.

In hybridizing carnations we sometimes meet with what is termed seed sports. These have been invariably light pink varieties (more or less marked with crimson edgings and stripes) that have been produced by crossing crimson sorts which had comparatively pure crimson pedigrees for several generations.

Aside from its commercial importance, there is a sentimental side to carnation growing. The production of new hybrids which are distinct improvements upon existing sorts is always a pleasure and serves to keep one thoroughly interested in the "Divine flower" and amply repays for the close application necessary to produce practical improvements.

How I Commenced Carnation Culture.

Some fourteen years ago, while walking down Broadway, New York city, a Greek flower peddler pushed under my nose a bunch of clove scented carnations. The delicious fragrance reminded me vividly of the old home garden with its little plats of Paisley pinks, and I became at once interested in the blooms and being at that time out of business, I took up the growing of carnations, believing that if chrysanthemums, roses and other flowers could be improved by hybridization and culture, the carnation must respond to similar methods, and in this view later experience proved that I was not at fault.

Commercial Importance of the Carnation.

At the present time the commercial value of the carnation grown in this country has risen so that the calling

may be considered one of the substantial professions. The annual value of the carnation product reaches five to six millions of dollars, when we consider the sales of both plants and flowers, and the capital invested possibly may amount from fifteen to twenty millions of dollars, taking into consideration the value of the real estate and buildings devoted to carnation culture.

The improvement in the carnation which has resulted in giving us flowers three times the size that they ordinarily were with stems four to five times as long, has produced a general advance in the price of the carnation, which seems to keep pace with the increased demand. When I first undertook the growing of the carnation, 50 cents to \$2.00 were considered the retail prices. At present, \$2.00 to \$6.00, sometimes \$8.00, and, in rare instances, \$10.00 per dozen are secured. When I first entered the business 50 cents to \$1.00 and from that up to \$4.00 per hundred as the maximum price were the wholesale rates. At present \$2.00 to \$15.00 per hundred are the ruling prices, and at certain seasons as high as \$25.00 per hundred are secured for the best and most perfect blooms.

We have about two acres under glass devoted to carnation growing, the annual sales from which run from \$30,000 to \$36,000, noting a fair annual profit of \$10,000 to \$12,000.

Naming New Varieties.

The naming of a new carnation is quite a puzzle to the originator, and he usually selects the name of some beautiful lady, some particular friend, some important personage, a bird, the name of a planet or something that will serve to describe or produce an impression of the characteristics of his flower. In naming my own productions, I have honored some of my seedlings with such names as the President, Mrs. Roosevelt, Governor Roosevelt, Viola Allen, Elso Struss, Alma Ward, James H. Manley. The Cuban Patriots, General Maceo and Gomez, and your own townsman, Robert Craig.

The Carnation in Politics.

The carnation has frequently been used in a political sense. It was the McKinley emblem and the campaign flower during the campaign which elected McKinley and Roosevelt, and during that campaign the various carnation growers throughout the country donated many thousands of flowers to decorate the button-holes of those marching in political parades. At the present time the American Carnation Society decorates the grave of the lamented President with carnations on the 29th of January every year.

The carnation is extensively used as a decorative flower. It lends itself to almost every use in which flowers are suitable. Its varied and delicate colorings, its magnificent, pungent, refreshing odor and its long keeping qualities render its probably the most valuable of all florists' flowers, excelling even the up-to-now Queen of Flowers, the Rose.

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NEW CHRYSANTHEMUMS

(Read before the Morris County Gardeners' and Florists' Society, Feb. 14, 1906, by C. H. Totty.)

Being the sponsor for so many of the new kinds, in the sense that I am introducing them to the trade, I should have been better pleased had some one else, who could not have been accused of "having an axe to grind," essayed to write this paper. However, many of you saw the kinds in flower at our local show, so if I get too enthusiastic you can easily bring me back to earth. It has been asserted that while American raisers of new varieties concede the palm for size to imported kinds, yet the American varieties are the only ones adapted for average commercial culture. Is this statement true? I say, hardly so, because a walk through the New York out-flower district during the chrysanthemum season shows us the following kinds shipped in, in quantity, and all of them are imported varieties: October Sunshine, Alice Byron, Cheltoni, Nellie Pocket, Mrs. Coombs, and our own great and only Wm. Duckham. There are others, but I have quoted enough to show that the foreigners do get a show in the wholesale markets of the country. I have had it stated to me that Timothy Eaton is an English variety, instead of a Canadian seedling, but, in the absence of any proof, I refuse to credit it. The fact is, that a valuable new variety may originate in any country, but in the case of some raisers, the French, particularly, one has to buy so much chaff to find even one grain of wheat, that the game is not worth the candle.

It has been stated that the reason the Australian varieties do so well here is because they are accustomed to strong sunshine, and being grown and flowered entirely outside, have more natural vigor. I am just now collaborating with a hybridizer in California, where, I understand, almost identical conditions exist, and if it is a matter of climatic conditions, we hope to be producing some Wm. Duckhams and Beatrice Mays in a year or two. The strongest reason, to my mind, why the Wells-Pocket kinds have done so well is because of the rigid selection of the best kinds from an immense number of seedlings. Thus the present list, Mrs. Partridge, Mrs. Heaume, Mrs. Knox, G. J. Brooks, etc.—some twelve kinds in all—are the picks of over 97,000 seedlings. In the face of a pruning down like that, one would say they must be all wonders, and, candidly, I think they are the best list this firm has ever sent out. How different this wholesale method from the conditions under which our own hybridizers have to work, where the plants are grown inside, taking up valuable space, and a few hundred seem a very large batch to handle.

Hybridizing is largely a gamble anyway, and a Col. Appleton may appear in your own dozen plants, but the chances are against you, and the law of averages will tell in the long run. In looking over the new things of the year we will give first place to the American seedling, Morton F. Plant. This made its first and almost only appearance at our local show, and we should be duly proud of this fact. This coming year, when the experts from other localities have it to

work with, some phenomenal flowers are bound to be shown. An improved V. Morel, but twice the size that I ever saw Morel, and we have in a few words a very good description of Morton F. Plant, with the addition that the foliage and stem are the facsimile of Col. Appleton. Honor to whom honor is due, and we owe a good deal to the Daillidouze Bros. for this grand variety.

Next on the list is Beatrice May, and she is certainly a beauty. This variety has developed one serious fault, from my point of view, which is that she is altogether too shy and modest in producing stock, making the dissemination too slow and unsatisfactory. I had hoped to make some money out of Beatrice, but, in the language of the poet, "Twas ever thus since childhood's hour, I've seen my fondest hopes decay"—and a most vigorous hunt over three continents fails to reveal any stock worth speaking of. As a keeper, this variety is second to none. It kept three weeks on the plant, with me, in perfect condition, and some of the flowers, after being exhibited and scored by the C. S. A. committee, kept in water some three weeks longer. The way Beatrice May finished up with me last year was about as near perfect as I ever expect to see a white chrysanthemum. Perhaps the next best thing as an all-round variety in its color is Mrs. Henry Partridge. Red varieties are almost without exception prone to burn in the bright sunlight, but Partridge will not damp one petal. Almost everyone likes W. R. Church, but so many complain of its poor growth; Partridge will give you the Church color, and, in addition, is a grand stocky grower. I tried it on every bud from Aug. 10 to the end of September, and it was good on every one, the late buds showing, as was natural, a much thinner flower.

Another very dwarf variety which showed color similar to Partridge on first opening was Mary Ann Pocket, but it soon faded to an Indian red. This variety was so very dwarf that I did not take any notice of it all summer, and the flower, when it developed, was a most agreeable surprise. Mary Ann Pocket will be a very valuable variety to grow in pots or on a front bench when head-room is limited.

While on the dwarf varieties—and the splendid dwarf habit is one of the strongest qualities of the Wells varieties every year—I would mention May Seddon. It had no chance to prove itself this year, as my stock did not come till late, and it is so dwarf that it must have a very long season of growth to do it justice. Do not, I beg of you, keep on propagating this variety too late this year; give it a fair show, and if it comes with you as it has been grown—11 inches across and 11 inches deep—you will have a prize winner in the white classes. Mrs. John E. Dunne is a fine grower and a fine variety, one that will give you a 100 per cent. good flowers. The color is old rose, very striking and beautiful and reminds me of the old Chenon de Leche, for years a great favorite of mine. Dunne will run up 4 to 5 feet

with good culture and a crown-bud around Aug. 20th will give you the best flower. Another sterling sort, in that every flower comes good, is Mrs. G. Heaume, a splendid clean grower 3 to 4 feet high. The color is pretty much the shade seen in Queen Alexandra, a salmony bronze, one of the kinds commonly called off-colors, but I am free to confess that everyone that saw it in my houses liked it.

Mrs. Wm. Knox when first expanding looks distinctly an aristocrat, as every petal falls naturally into its own place, but I am sorry to have to confess that the neck is hardly long enough to hold erect the large spreading flower. In the short vase classes it is a winner, as it gives a flower with as large a spread as F. S. Vallis and a far neater appearance. T. Richardson is an immense grower and will make a stem like a young tree. Do not over feed this variety, as it has such tremendous root action that it is easy to overdo it. The color is the same shade as an Enchantress carnation, a point to be considered when classing it as a pink. A bud the last week in August is to be preferred to an earlier one.

Mrs. F. F. Thompson was called the most artistic flower in the Philadelphia show, and if it were not necky, I would say go on it largely. In the short vase classes or classes where a support is allowed, it is one of the most striking varieties ever set up. We have had varieties before that have been termed Ostrich Plumes in the exquisite twist and curl of the petal. Mrs. George Beech will be a sterling sort for the commercial grower and while rather late for an exhibition flower is far ahead of Yellow Eaton and other of the class for November shows. I notice it mentioned very prominently in English periodicals as a grand Christmas variety. Beech is a yellow sport from Mrs. Swinburne, a variety that you may recall I sent out last year, and which will be largely grown next year as a late white, as it has made good everywhere. Leslie P. Ward, which is named after our patron and fellow townsman, is one of the most beautiful combinations I have seen, being old rose with golden tips to the petals. It is an Australian seedling and was exhibited as No. 50. To get the lovely color of this variety at its best, do not take a bud before Sept 1st if you can help it; earlier buds, while they produce larger flowers, do not show such fine color. M. G. Rivol is a French sport from Paola Radilli, which was a fine thing but a poor undecided color. Rivol is a fine deep yellow, deeper in color than Col. Appleton, and will be of good service, as growth is firm in every way.

There are several other good kinds in the Australians—G. J. Brooks, Merstham Crimson, and W. Wells—but time and space forbid of my going into them in detail. The last named will probably show up much better this coming season than it did last, because stock was limited and I experimented over a wide range of buds to find the best one.

The introduction of other disseminators I cannot take up with any de-

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CHRYSTANTHEMUM MANUAL (Smith); 120 pages; illustrated; 40 cents; revised edition ready April 1.
THE CHRYSTANTHEMUM (Herrington); 50 cents.
HOW TO MAKE MONEY GROWING VIOLETS (Saltford); 25 cents.
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HARDY FLOWERS.

"Hardy Flowers" was the topic which came in for considerable discussion on February 17 in the lecture hall of the Massachusetts Horticultural Society. The discussion was introduced by E. O. Orpet, who read an interesting paper on this subject.

Hardy plants, he said, appeal to almost everyone very largely on the ground of sentiment; for there is scarcely one of the more familiar flowers that has not some particular association with childhood days. There was a time when hardy varieties were rather out of fashion; but they are again coming to the front, and today one finds a great many more in use than formerly, varieties which have been transplanted from their wild environment. It is most unfortunate, he affirmed, that wild flowers are often despised, for they are capable of splendid development and many of them are very beautiful. There was a difference of opinion, he said, as to whether hardy plants should be massed together or used separately in gardens, especially in border effects; but it is essential that tender plants, annuals, for instance, be used in conjunction with hardy ones.

Of course the question of soil is of the greatest importance, for it is a difficult task to make all kinds of plants thrive in the same soil. In all cases the soil should be prepared quite deep, for in this way they much better withstand a drought. He called attention to the curious feeling of dislike that existed among people for such colors as purple and mauve; and he thought it a great mistake that flowers of these hues were eliminated from gardens as they sometimes are. In hardy borders bulbs are getting to be quite popular and he instances the narcissus of which there are many varieties which are splendid for planting in masses for spring blooming. Of columbines there are only three varieties which he would recommend for cultivation. They are the common North American species to be had in red, yellow and blue. None of the hybrid varieties is equal to them. Of larkspur he did not care much for the annual variety, but the perennials were good and vigorous, although they were frequently subject to blight which might be overcome by

careful attention. Irises were among the very best of garden plants and peonies have become enormous favorites of late years. In fact people are peony crazy, he said.

Garden phlox is indispensable in a well-arranged garden; but he recommended that the flower stalks be cut down early; if not they are apt to go to seed and the stronger varieties crowd out the weaker ones. Hardy pyrethrum, he remarked, was very popular, and the single ones are more advantageous than the double ones, as they maintain their erect position after the rain, while the other ones become top heavy. The lupine was another indispensable variety, the only trouble with it being that it was apt to die down about the time a garden was at its height; but this could be overcome by planting an annual variety whose flowers are at their best late in the season. In considering the numerous lilies he referred to the California species as most beautiful, but not adapted to the Eastern climate. There were many plants which are commonly supposed to be hardy which have to be most carefully looked after during the cold weather, and he included in the list the Canterbury bell and even hollyhocks, which should always be protected against frost. The coreopsis was another which needed some similar protection.

The speaker referred to the great number of varieties which we are getting from China, some 3000 such having been introduced of late. He believed that both Russia and Siberia would yet prove fertile fields for the discovery of new botanical specimens. He paid a tribute to the work doctors have done for horticulture, noting the fact that a great many surgeons have been good botanists and there are thousands of plants the knowledge of which we owe to medical men.

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New Offers on Page 266, 267 and 268.

PHILADELPHIA NOTES.

Mr. and Mrs. Jno. Westcott and grandchild left Philadelphia for a two weeks' sojourn in the Sunny South Feb. 26. Among other places they will call at Neptune, Fla., where John's old friend and partner, Abram S. Pennock, makes his winter home with his son, Henry.

Mrs. Lank (nee Edna Craig) arrived in Philadelphia after a six months' sojourn in Mexico with her sister, Mrs. Graeff (nee Mamie Craig), on Feb. 26, much improved in health and glad to see the green banks of the Delaware again.

The Leo Niessen Co. have been fortunate the past few weeks in being long on orchids. *Calogyne*, *phalaenopsis* and *cattleya* are among their specialties that have been appreciated.

Harry Bayerslorier had a birthday celebration at his home on Diamond street on the 25th inst.

The William Graham Co. are contemplating the purchase of the Hugh Graham conservatories. This deal if consummated will give them, combined with their Olney establishment, one of the largest retail ranges in the country.

Paul Huebner, who has the reputation of being the best railroad gardener in the country, will give an address on railroad gardening before the Florists' Club on Tuesday evening, March 6.

Ficus pandurata and *Marguerite Queen Alexandra* are two sterling novelties which the Robert Craig Company are now busy working up a stock of.

We had the pleasure of a few days' visit in Philadelphia from Harry O. May of Summit, N. J., last week.

Jno. Pappey, late foreman for Gustavus Hanson, Harrisburg, is now with Borneman & Co., Lansdowne, Pa.

Christian Eisele has a new double white variety of the golden feather (*pyrethrum*) which he thinks well of. It is purer white than the feverfew (*matricaria*) and is very attractive for edgings.

Harvey & Sons of Brandywine Summit have just contracted with Lord & Burnham Co., through D. T. Connor, for a new addition to their already extensive establishment.

BUSINESS CHANGES.

J. Schuncke of E. North avenue, Baltimore, Md., has leased the stall in Lexington market from F. N. Powell, and will devote it to potted plants and cut flowers.

Edward H. Rust of the Palm Place nurseries at South Pasadena, Cal., has doubled his greenhouse area and has started a new sales yard and nursery of extensive acreage at the near-by new town of Corcoran. At the latter place he expects to grow grapes and general deciduous fruit stock on a large scale, while tender ornamentals, both indoor and out, will be grown, as heretofore, at South Pasadena.

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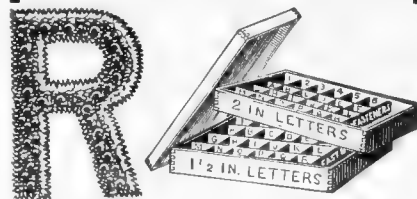
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Bride & 'Maid—Fan. & Sp.....	8.00	to	10.00	1.00	to	12.50	12.00	to	15.00	8.00	to	10.00
" Extra.....	6.00	to	8.00	6.00	to	8.00	8.50	to	12.00	6.00	to	8.00
" No. 1 and Lower gr.....	4.00	to	5.00	4.00	to	5.00	4.00	to	8.00	2.00	to	5.00
Liberty, Fancy.....	10.00	to	15.00	to	20.00	to	30.00	12.00	to	25.00
" Ordinary.....	6.00	to	8.00	to	8.00	to	15.00	2.00	to	12.00
Richmond, Fancy.....	10.00	to	15.00	10.00	to	12.50	20.00	to	25.00	20.00	to	30.00
" Ordinary.....	6.00	to	8.00	6.00	to	8.00	12.00	to	15.00	8.00	to	12.00
Golden Gate, Fancy.....	8.00	to	10.00	1.00	to	1.00	1.00	to	12.00	6.00	to	8.00
" Ordinary.....	5.00	to	6.00	4.00	to	8.00	6.00	to	10.00	2.00	to	4.00
Chatenay, Fancy.....	8.00	to	10.00	1.00	to	12.50	15.00	to	18.00	6.00	to	8.00
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Roman Hydr., Paper White, Nar.....	2.00	to	3.00	2.00	to	3.00	2.00	to	4.00	1.00	to	2.00
Daffodils, Trumpets.....	2.00	to	4.00	1.00	to	3.00	2.00	to	4.00	.75	to	1.50
Freesia.....	2.00	to	4.00	to	1.50	to	4.00	to
Mignonette.....	6.00	to	10.00	4.00	to	6.00	3.00	to	4.00	to	2.00
Adiantum Canestum.....	.50	to	1.00	to	1.00	1.00	to	1.50	.75	to	1.00
" Croweanum.....	1.00	to	1.50	to	to	to	1.50
Smilax.....	10.00	to	15.00	12.50	to	15.00	15.00	to	20.00	12.00	to	16.00
Asparagus Plumosus, strings.....	25.00	to	50.00	25.00	to	50.00	20.00	to	60.00	to	50.00
" " Sprenger bunches.....	30.00	to	40.00	25.00	to	50.00	20.00	to	75.00	20.00	to	50.00
Lilacs per 100 bunches.....	75.00	to	100.00	to	50.00	to	200.00	to

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CUT FLOWER MARKET REPORTS.

BALTIMORE The greatest trouble here of late has been to get sufficient up-to-date stock. Roses and carnations have been very scarce, but violets are in line to meet all demands. Easter stock is ahead of time and it is impossible to hold it back. Some few Bermuda lilies are coming in, but they are not as good as in former years. Weather conditions are somewhat to blame.

BOSTON Trade is falling off rapidly; Ash Wednesday called the turn. It is nothing new; only history repeating itself. Flowers are plentiful—bulbous flowers embarrassingly so—and some of them, notably daffodils, selling at unprofitable figures. Lily of the valley is very slow and violets are accumulating. American Beauties, the long stemmed sort, have been very scarce and are not yet numerous, but indications are favorable for a better product ten days from now, just in time for the rose show. Carnations are of good quality but show evidences of a superfluous quantity in reserve; slowly but surely they are coming on and values must drop. The cold wave of Ash Wednesday was a lucky incident for it curtailed promotion and thus saved the day for the wholesale trade.

BUFFALO The past week has been a busy one for all. Many social events being held made the demand good on flowers. Violets were good sellers as well as Beauties and other roses, but not too many were had. Carnations were in heavy demand nearing the end of the week, prices holding the same as previous week. Narcissus and other bulbous stock was too plentiful at times, prices weakening to some extent. There was a good supply of greens, which sold rapidly.

DETROIT The remarkable steadiness of business this season has been singularly beneficial to all growers as well as the commission man and retailer. Bulbous stock comes in large quantities, but none too plentiful except in the case of yellow, which is in surplus. Pink and white roses have been scarce at times and Beauties are always scarce here. Violets, sweet peas, lily of the valley and callas find a ready sale, and carnations do not linger much as yet, the wholesalers experiencing no trouble in

keeping the prices steady. Washington's birthday brought a good demand, white being used mostly for that occasion. A more timely arrival of stock at the commission houses would be a great improvement over the present system. For the retailer it would save much valuable time both in the buying of flowers and the filling of morning orders. It would serve to break up the grabbing now so unavoidable. The many shipments arrive somewhere between 11 and 12 a. m. It would be greatly to the advantage of all if the growers would arrange for early shipments. The wholesalers could use a better system and the retailers would do better business by filling orders promptly while the growers would come in for their share of the profits thereon.

LOUISVILLE Business conditions the previous week were somewhat slow. Carnations and roses of good quality were in good demand, and the supply was satisfactory. Lily of the valley was satisfactory in supply and demand, the quality being very good. Violets, forget-me-nots, mignonette, etc., found excellent sale. Jonquils, tulips, hyacinths were plentiful.

NEWPORT The market all last week was strong in supply and demand. The stock coming in day by day was of excellent quality and the demand seemed just right for that class of goods. Roses and carnations were in particularly strong call with prices stationary, perhaps because of the knowledge that much more good stock was expected in. Bulbous stock is coming in a little too heavy in volume, and the trouble is that instead of a letup we may expect the reverse for this week and the next and the next. Tulips are exceedingly good as seen in some of the windows. Violets are more plentiful. Lilies are making their appearance known in several ways. Flowering plants are scarce even yet.

NEW YORK A tour of the wholesale sale houses disclose the fact that mid-winter conditions in the cut flower trade are over for the year. Consignments on all sorts of material are much heavier, and are growing more so every day, and the tables are piled high with tulips, daffodils, freesias and similar stock, which can be sold only at a sharp cut below even the minimum quoted prices. Lent went into effect this week, and for a time at least may be expected to add its influence to further depreciate market values. In some respects the season now closing has been a great improvement on its recent predecessors. A healthy tone has prevailed and values have fluctuated less than usual, the sales at low figures generally being of stock of inferior quality, and the retail stores have all apparently prospered, complaints of poor business being conspicuously absent.

PHILADELPHIA Notwithstanding the holiday, business for the week, 19th to 24th, was very fair. Beauties were still scarce and brought 60 to 75 cents for fancies. Short-stem Beauties, where the flowers were good, sold on sight. Brides and Bridesmaids were very much more plentiful, especially in the highest grades, and prices eased a little, with a good deal left over, on which prices had to be sacrificed. Libertys were scarce. Chateaus very good and quite plentiful. Killarneys were also a good deal in evidence. Carnations came in in immense quantities, but prices held fairly well, largely on account of the fine quality. Lawson, Prosperity, Enchantress, Flamingo, Patten, Queen and Maryland were the leaders. It is presumed that very little Prosperity will be grown next year. Violets fairly plentiful and brisk demand. Lily of the valley and bulbous stock a little slow. Sweet peas were fine and sold well. The freesia crop is short-good stuff. The freesia crop is shortening up a little. Callas, Harris and white lilac help out the variety of subjects on the market and come in handy. The new Marguerite, Queen Alexandra has made quite a hit on the market here.

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	Last Half of Week ending Feb. 24 1906		First Half of Week beginning Feb. 26 1906			Last Half of Week ending Feb. 24 1906		First Half of Week beginning Feb. 26 1906	
Roses					Carnations, Ordinary	1.50	to 2.00	1.00	to 2.00
Am. Beauty and Edgeley fan and sp.	50.00	to 75.00	50.00	to 75.00	Cattleyas	50.00	to 60.00	50.00	to 60.00
" extra	35.00	to 40.00	35.00	to 40.00	Lilies	8.00	to 12.00	6.00	to 10.00
" No. 1	15.00	to 25.00	15.00	to 25.00	Callas	8.00	to 12.00	8.00	to 12.00
" Lower grades	3.00	to 10.00	3.00	to 10.00	Lily of the Valley	1.00	to 3.00	1.00	to 2.00
Bride & Maid, fan and sp.	10.00	to 12.00	8.00	to 10.00	Violets	.40	to .75	40	to .75
" extra	6.00	to 10.00	4.00	to 6.00	Tulips	1.50	to 4.00	1.00	to 3.00
" No. 1 and lower grades	3.00	to 6.00	2.00	to 3.00	Rom in Hya. Paper White Nar.	1.00	to 2.00	1.00	to 2.00
Liberty, fancy	20.00	to 30.00	12.00	to 20.00	Daffodils, Trumpets	1.00	to 2.00	.75	to 2.00
" ordinary	3.00	to 12.00	3.00	to 8.00	Freesia	.75	to 1.50	75	to 1.50
Richmond, fan y.	20.00	to 30.00	15.00	to 25.00	Mignonette	2.00	to 8.00	2.00	to 8.00
" ordinary	3.00	to 12.00	3.00	to 12.00	Adiantum Cuneatum	1.00	to 1.25	1.00	to 1.25
Golden Gate, fan y.	8.00	to 12.00	6.00	to 8.00	" Croweanum	1.00	to 1.50	1.00	to 1.50
" ordinary	3.00	to 6.00	2.00	to 4.00	Smilax	8.00	to 16.00	20.00	to 35.00
Chatenay, fancy	10.00	to 15.00	6.00	to 8.00	Asparagus Plumosus	20.00	to 35.00	20.00	to 35.00
" ordinary	3.00	to 6.00	2.00	to 4.00	" & Sprenger, bunches	20.00	to 35.00	20.00	to 35.00
Carnations, Fancy	3.00	to 6.00	2.00	to 4.00	Lilacs per 100 bunches	50.00	to 125.00	50.00	to 125.00

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	CINCINNATI Feb. 27	DETROIT Feb. 25	BUFFALO Feb. 26	PITTSBURG Feb. 26
ROSES				
Am. Beauty and Edgely, fan and sp.	50.00 to 50.00	50.00 to 60.00	50.00 to 70.00	60.00 to 70.00
" extra.	30.00 to 40.00	30.00 to 50.00	30.00 to 50.00	30.00 to 50.00
" No. 1.	20.00 to 25.00	25.00 to 30.00	15.00 to 25.00	15.00 to 20.00
" Lower grades.	5.00 to 10.00	8.00 to 10.00	8.00 to 15.00	4.00 to 6.00
Bride and Maid, fan and sp.	8.00 to 8.00	12.00 to 12.00	15.00 to 15.00	12.00 to 18.00
" extra.	5.00 to 6.00	8.00 to 12.00	10.00 to 12.00	8.00 to 10.00
" No. 1 and Lower gr.	3.00 to 4.00	4.00 to 8.00	5.00 to 8.00	5.00 to 6.00
Liberty, fancy.	8.00 to 12.00	12.00 to 10.00	15.00 to 15.00	15.00 to 25.00
" Ordinary.	4.00 to 5.00	5.00 to 10.00	4.00 to 10.00	6.00 to 10.00
Richmond, fancy.	10.00 to 10.00	12.00 to 10.00	10.00 to 10.00	20.00 to 25.00
" Ordinary.	4.00 to 4.00	8.00 to 8.00	8.00 to 8.00	8.00 to 15.00
Golden Gate, fancy.	6.00 to 8.00	6.00 to 10.00	10.00 to 12.00	10.00 to 12.00
" Ordinary.	3.00 to 4.00	4.00 to 8.00	4.00 to 8.00	6.00 to 8.00
Chatenay, fancy.	8.00 to 10.00	8.00 to 10.00	10.00 to 15.00	15.00 to 20.00
" Ordinary.	4.00 to 4.00	8.00 to 8.00	8.00 to 8.00	6.00 to 8.00
CARNATIONS				
Fancy.	4.00 to 5.00	4.00 to 4.00	3.00 to 4.00	4.00 to 6.00
Ordinary.	1.50 to 2.00	2.00 to 3.00	1.50 to 3.00	1.00 to 2.00
MISCELLANEOUS				
Cattleyas.	10.00 to 10.00	10.00 to 50.00	10.00 to 10.00	12.00 to 16.00
Lilies.	12.50 to 12.50	10.00 to 15.00	10.00 to 15.00	12.00 to 15.00
Calas.	10.00 to 12.50	10.00 to 12.50	10.00 to 10.00	10.00 to 15.00
Lily of the Valley.	3.00 to 5.00	3.00 to 4.00	2.00 to 4.00	2.00 to 3.00
Violets.	1.50 to 1.00	75 to 1.00	40 to 75	50 to 1.00
Tulips.	3.00 to 3.00	3.00 to 3.00	2.50 to 3.00	2.00 to 4.00
Roman Hyacinth: Paper White Nar.	2.00 to 4.00	2.50 to 4.00	2.00 to 4.00	2.00 to 3.00
Danodils; Trumpets.	2.00 to 2.00	2.00 to 2.00	2.00 to 4.00	2.00 to 4.00
Freesia.	2.00 to 2.00	2.00 to 3.00	2.00 to 2.00	2.00 to 3.00
Mignonette.	2.00 to 2.00	2.00 to 5.00	2.00 to 4.00	2.00 to 4.00
Adiantum Cuneatum.	1.00 to 1.00	1.00 to 1.00	1.00 to 1.00	1.00 to 1.00
" Croweanum.	1.00 to 1.00	1.00 to 1.00	1.00 to 1.00	1.00 to 1.00
Smilax.	12.50 to 12.50	12.50 to 15.00	12.00 to 15.00	12.50 to 15.00
Asparagus Plumosus, strings.	40.00 to 50.00	3.00 to 50.00	40.00 to 50.00	40.00 to 50.00
" & Sprenger, bunches.	25.00 to 25.00	25.00 to 30.00	25.00 to 50.00	40.00 to 75.00
Lilacs per 10 bunches.	50.00 to 50.00	50.00 to 50.00	50.00 to 50.00	50.00 to 75.00

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Cottage Gardens Co., Queens, N. Y.
Carnation Robert Craig.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Carnations, Winsor, White Enchantress, Helen M. Gould.
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CARNATIONS—Continued.

A. B. Davis & Son, Inc., Purcellville, Va.
Carnations, Red Sport.
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Wm. Swayne, Kennett Square, Pa.
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CHRYSANTHEMUM STOCK PLANTS.

C. H. Totty, Madison, N. J.
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Nathan Smith & Son, Adrian, Mich.

Chrysanthemum cuttings. Monrovia, Glory of Pacific, Polly Rose, Robinson, Philadelphia, White Bonnafton, Fitzwygram, G. S. Kalm, Robt. Halliday, John Shrimpton, May Bonnafton, Col. Appleton, Niveus, Bride, White Ivory, Cullingford, Arline, Maud Dean, Mutual Friend, W. Lincoln, Jerome Jones, J. G. Jones, Timothy Eaton and Mue. Perrin at \$1.50 per 100; \$12.50 per 1000.

Opah, Princess, E. Bonnefond, Alliance, Fred Lemon, Mrs. Erice, La Tuslon, Mersham Yellow, Mildred Ware, Wm. Duckham, Amorita, Dr. Enguehard, Mrs. T. W. Pickett, Nellie Pickett, Ben Wells, F. S. Vallis, Mrs. Thirkell at \$2.50 per 100; \$20.00 per 1000.
W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

COLEUS.

H. N. Eaton, So. Sudbury, Mass., Rooted Cuttings.
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CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.
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CYCLAMEN PLANTS.

C. Winterlich, Defiance, O.
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DAHLIAS.

David Herbert & Son, Atco, N. J.
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S. S. Pennock, Philadelphia.
Dahlia Roots.
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250 Named Varieties.—Cactus, Show, Fancy, Decorative, Single, Pompon, Colarctte, etc., containing all the latest Foreign and American introductions. List on application.
Palisades Nurseries, Sparkill, N. Y.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
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ELECTRIC CIRCULATOR.

Holly-Castle Co., Boston.
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FERNS.

A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Sons, Whitman, Mass.
Nephrolepis Barrowsii.
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F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Nephrolepis Piersoni Elegantissima.
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FERTILIZERS.

Wm. Elliott & Sons, 201 Fulton St., New York.
Sterilized Sheep Manure.
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FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.
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H. Bayersdorfer & Co., Philadelphia, Pa.
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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
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N. F. McCarthy & Co., 84 Hawley St., Boston.
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Reed & Keller, 122 W. 25th St., New York.
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FLORISTS' SUPPLIES—Continued.

J. B. Murdoch & Co., 545 Liberty St.
Pittsburg, Pa.
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S. S. Pennock, Philadelphia.
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J. Stern & Co., 1928 Germantown Ave.,
Philadelphia.
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FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St.,
Boston.
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G. A. Sutherland Co., 34 Hawley St.,
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FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
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Fred C. Weber, 4326-28 Olive St.,
St. Louis, Mo.
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Young & Nugent, New York.
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J. Breitmeyer's Sons, Miami & Gratiot
Aves., Detroit, Mich.
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Thos. Young, Jr., 41 W. 28th St., New York.
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George H. Cooke, Washington, D. C.
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A. Gude & Bro., 1214 F St.,
Washington, D. C.
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Z. D. Blackstone,
14th and H Sts., Washington, D. C.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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FLOWER POTS.

W. H. Ernest, 24th and M Sts.,
Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hillinger Bros., Ft. Edward, N. Y.
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FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
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GERANIUMS.

J. E. Felthousen, Schenectady, N. Y.
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GLADIOLI.

E. E. Stewart, Rives Junct., Mich.
Colors, mixture and named All sizes.

Arthur Cowee, Meadowvale Farm, Berlin,
N. Y.
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GLASS.

G. C. Watson, 1614 Ludlow St., Philadel-
phia.

Boston Plate & Window Glass Co., Boston.
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GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL—

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square,
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Chicago House Wrecking Co., Chicago, Ill.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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GREENHOUSE BUILDING MATERIAL—Continued.

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Adam Schillo Lumber Co., West St. and
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Weathered Co., 46 and 48 Marion St., New
York.
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Foley Mfg. Co., Chicago.
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GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for
Florists.
Mineralized Rubber Co., New York.

HARDY ENGLISH IVY.

Field grown, strong roots, vines 2 to 3
feet, \$4.00 per 100; \$35.00 per 1000.
Palisades Nurseries, Sparkill, N. Y.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
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The Kervan Co.,
20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dinger, Mgr.
Fancy Ferns.
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HARDY PERENNIALS.

Complete list of Field and Pot-grown
Plants.
Palisades Nurseries, Sparkill, N. Y.

HARDY PHLOX.

100 Named Varieties.
Palisades Nurseries, Sparkill, N. Y.

HARDY PRIMULAS.

Sieboldii (Cortusoides), 12 Named Varie-
ties.—Eatonii (Polyanthus Primrose), Vul-
garis (English Primrose), Veris Superba
(Giant Cowslip), 2 1-2 inch pots. Doz.,
\$5c.; 100, \$6.00.
Palisades Nurseries, Sparkill, N. Y.

HEATING APPARATUS.

Lord & Burnham Co.,
1133 Broadway, New York.
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John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
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Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
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Kroeschell Bros., 35 Erie St., Chicago.
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HOTHOUSE GRAPE VINES.

Rose Hill Nurseries, New Rochelle, N. Y.
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IMPORTING HOUSES.

R. M. Ward & Co., New York.
Plants and Bulbs.
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INSECTICIDES.

Perfection Chemical Co., Flushing, N. Y.
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The H. A. Stoorhoff Co., 119 West St.,
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Fumigating Kind Tobacco Powder.
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Yokohama Nurseries, 31 Barclay St.,
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MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
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Nicotine Mfg. Co., St. Louis, Mo.
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Mt. Hissarlik Nurseries,
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Cottage Gardens, Queens, N. Y.
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Chas. Black, Hightstown, N. Y.
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Forest Nursery & Seed Co., McMinnville,
Tenn.

Forest Tree and Shrub Seeds.
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Pierce Nursery, Beverly Farms, Mass.
Berberis, Thunbergii and Vulgaris.
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Green's Nursery Co., Rochester, N. Y.
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P. A. Keene, 1 Madison Av., New York.
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Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Julius Roehrs Co., Rutherford, N. J.
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PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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A. Klokner, Wauwatosa, Wis.
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J. C. Schmidt Co., Bristol, Pa.
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H. N. Eaton, S. Sudbury, Mass.
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A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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R. & J. Farquhar & Co., Boston.
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H. F. Michell Co., Philadelphia, Pa.
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W. W. Rawson & Co., Boston.
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PLANTS HARDY.

M. A. Walsh, Woods Hole, Mass.
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Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.

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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.
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Young & Nugent, New York.
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Hardy Roses, H. T. Roses and Ramblers.
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F. H. Kramer, Washington, D. C.
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Robert Scott & Son, Sharon Hill, Pa.
Grafted Roses.
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R. T. McGonim, Natick, Mass.
Grafted Brides and Maids.
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W. W. Rawson & Co., 12 and 13 Faneuil
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Thos. J. Grey & Co., 32 S. Market St.,
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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W. Atlee Burpee & Co., Philadelphia.
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Burnett Bros., 101 West St., New York
Seeds, Bulbs, and Fertilizers.
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J. M. Thorburn & Co.,
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G. C. Watson, 1614 Ludlow St., Philadel-
phia.
Sweet Pea Christmas.

Weeber & Don, 114 Chambers St., New
York.

Vegetable and Flower Seeds
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H. A. Dreer, Philadelphia.
Flower Seeds.
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Wm. Elliott & Sons, 201 Fulton St., New
York.
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Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montclair, N. J.
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H. M. Robinson & Co., 8 & 11 Province
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TOMATO AND PLANT SUPPORTS.

Igoe Bros., 226 North 9th St.,
Brooklyn, N. Y.
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TRITOMAS (Red Hot Poker).

Collection of New Sorts in 2 1/2 inch
pots. All will flower this year. Tuckin,
Rufus, May Queen, R. C. Affourtit, Nobilis,
\$1.25 per doz.; \$10.00 per 100. Corallina,
Hitzert, Uvaria Grandiflora, 2 1/2 inch pots,
doz., 75c; 100, \$5.00.
Palisades Nurseries, Sparkill, N. Y.

VENTILATING APPARATUS.

Lord & Burnham Co.
1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Square,
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John A. Scollay, 73-75 Myrtle Ave.,
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Weathered Co., 46 and 48 Marion St.,
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Foley Mfg. Co., 471 W. 23d St., Chicago.
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The Chicago Lifter.

J. C. Moninger Co., 421 Hawthorne Ave.,
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ton.

George A. Sutherland Co., 34 Hawley St.,
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Welch Bros., 15 Province St., Boston.

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Wm. F. Kastling, 383 87 Ellicott St., Buf-
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J. A. Rudlong, 37 Randolph St., Chicago.
E. H. Hunt, 76-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Reinberg, 51 Wabash Ave., Chicago.
A. L. Randall Co., 21 Randolph St., Chicago.
Wietor Bros., 51 Wabash Ave., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.
E. F. Winterson Co., 45, 47, 49 Wabash
Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

Detroit.

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Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Dilger, mgr.

New York.

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Bonnot Bros., 55-57 West 26th St., New
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J. S. Fenrich, 110 W. 28th St., New York.

Ford Bros., 48 West 28th St., New York.

H. E. Froment, 57 W. 28th St., New York.

Alex. J. Guttman, 43 West 28th St.

E. C. Horan, 55 West 28th St., New York.

Philip F. Kessler, 55 W. 26th St., New
York.

Julius Lang, 53 West 30th St., New York.

A. H. Langjahr, 55 W. 28th St., New York.

James McManus, 50 W. 30th St., New York.

Chas. Millang, 50 West 29th St., New York.

Frank Millang, 55-57 W. 26th St., New
York.

A. Moltz, 55-57 W. 26th St., New York.

John J. Perkins, 115 W. 30th St., New York.

John I. Raynor, 49 W. 28th St., New York.

W. F. Sheridan, 39 W. 28th St., New York.

Traendly & Schenck, 44 W. 28th St., N. Y.

A. L. Young & Co., 54 W. 28th St., N. Y.

John Young, 51 W. 28th St., New York.

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W. E. McKissick, 1221 Filbert St., Phila-
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S. S. Pennock, 1612-18 Ludlow St., Phila-
delphia, Pa.

Pittsburg.

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Pittsburg Cut Flower Co., Ltd., 504
Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pitts-
burg.

New Offers in This Issue.**BEGONIA GLOIRE DE LORRAINE.**

Innes & McRae, Cheswick, Pa.
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**COLEUS, ROOTED CUTTINGS;
KAISERIN ROSES.**

A. N. Pierson, Cromwell, Conn.
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**ENGLISH POT AND BASKET
GROWN GRAPE VINES.**

Bobbink & Atkins, Rutherford, N. J.
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**GREENHOUSE BUILDING MATE-
RIAL, HEATING APPARATUS.**

Hitchings & Co., 1170 Broadway,
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**GREENHOUSE BUILDING MATE-
RIAL, HEATING APPARATUS.**

Lord & Burnham Co., 1133 Broadway,
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**GREENHOUSE BUILDING MATE-
RIAL, HEATING APPARATUS.**

Pierson U-Bar Co., 1 Madison Sq.,
New York.

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NIKOTEEN.

Nicotine Mfg. Co., St. Louis, Mo.
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NURSERY STOCK.

The E. E. Conn. Nursery Co., Stratford,
Conn.

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ORCHIDS.

Nathan Smith & Son, Adrian, Mich.
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SWEET PEAS.

H. F. Mitchell Co., Philadelphia.
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SWEET PEAS.

W. Atlee Burpee & Co., Philadelphia.
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WHITE PINE.

Eastern Nurseries, Jamaica Plain, Mass.
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WANTS.**Position Wanted**

The undersigned is open to engage with lady
or gentleman requiring the services of a thoroughly
experienced and competent gardener capable of
taking charge of a first-class private place. Euro-
pean and American experience in commercial
gardening, public parks and nurseries, and would
consider propositions in that connection. Best
of references as to character and ability. Address:

WILLIAM TRICKER, Narberth, Penna.


WANTED TO RENT—Three or four
greenhouses and grounds in the vicinity of
Boston. Address M. B., care of HORTI-
CULTURE, 11 Hamilton Place, Boston.

WANTED—A first-class Fern Grower, one
who has had experience. Good wages,
steady position. Send references. R. H.
N., care HORTICULTURE, 11 Hamilton
Place, Boston.

WANTED—For a large private place, a
first-class man as inside Foreman. Must
have European experience in some of the
best places. Apply, with copies of testimo-
nials, to H. W., care HORTICULTURE, 11
Hamilton Place, Boston.

WANTED—First-class man to take
charge of a city flower store in fashionable
district. One capable of making fine table
decorations and waiting on critical cus-
tomers. Salary \$20 per week to right man.
T. W., care HORTICULTURE, 11 Hamilton
Place, Boston.

WANTED Manager in a plant-shipping
department of a large commercial estab-
lishment. None need apply unless experi-
enced in overseeing men, handling palms,
bedding plants, etc. Married man pre-
ferred. State wages wanted. Also a po-
sition for an assistant. L. Company, care
HORTICULTURE, 11 Hamilton Place,
Boston.



I find the Fumigating Kind Tobacco Powder the cheapest and best insecticide on the market; it does the work every time; no burning or injury to your plants.

G. THEILMANN, Marion, Ind.

Why not ask for a free five pound trial sample; its convincing, it only costs you the express charge. It's no new fangled thing, hundreds write of it like Mr. G. Theilmann. Our booklet tells how to fumigate a house 100x25 feet with it for fifteen cents. THE H. A. STOOTHOFF COMPANY, 119 West Street, New York City, N. Y.

NEWS NOTES.

Snowdrops have been blooming all through the month of February in the vicinity of Boston.

Joseph A. Manda is seriously ill with typhoid pneumonia at the Memorial Hospital, Orange, N. J.

The F. R. Pierson Company have a daybreak sport from Lawson carnation which will be introduced next year.

George M. Kendall has taken a lease of the greenhouses of the Pollard Estate, Leominster, Mass., for cucumber growing.

Robert Paterson of Waverly was the winner of the prize of \$10 for getting the largest number of membership applications for the Gardeners' Club of Baltimore during the year.

Palmer's Red Lawson carnation is giving great satisfaction wherever grown. The variety seems to grow a trifle taller than Lawson, and the flowers are decidedly superior in form.

R. T. Fisher, forester, has outlined a scheme for scientific wood-cutting on the Wachusett Mountain reservation in Western Massachusetts, which while making way for roads and trails to points of scenic vantage, shall yield an income to the State. The Commissioners ask for \$12,000 to rebuild the summit house, and \$5000 for acquiring additional lands to protect the reservation.

The new carnation Winsor, is making a record that places it far in the lead as a producer. From the two thousand plants of which Mr. Pierson's stock consists, there have been taken twenty-one thousand cuttings this winter, no less than five thousand blooms have been picked in the month of February, and at the present time the plants are full of buds and bloom, averaging twelve to fourteen each.

Mr. Myer, whose establishment is one of the latest additions to the list of

fashionable New York flower stores, sends us a description of his unique table decorations on the occasion of a dinner given last week in honor of an eminent New York gentleman. The centre of the large quadrilateral table was laid out in the form of an Italian garden in miniature, the lawn effect being carried out by the use of a rich grass green carpet on which the plant groups were placed. The arrangement of cut flowers around the border of the table was in keeping with the formal character of the centre decoration.

GREENHOUSES BUILDING AND PROJECTED.

Stratford, Conn.—Chauncey D. Mills, addition.

N. Fairhaven, Mass.—John Livesley, one house.

Pittsfield, Mass.—R. Engelmann & Son, one house.

Los Angeles, Cal.—T. H. Wright, range of houses.

Pittsfield, Mass.—Mrs. Bryce, range of conservatories.

CATALOGUES RECEIVED.

H. Beaulieu, Woodhaven, N. Y. List of dahlias and cannas.

Weeber & Don, New York. 1906 catalogue of garden and flower seeds. The Don tomato occupies the centre of the front cover. It is a beauty. The book is finely illustrated throughout.

LIST OF PATENTS.

Issued February 20, 1906.

812,806. Metal Window-Box for Flowers. Emma E. Bixler, Easton, Pa.

812,942. Plant-Support. Christian Lund, Wausau, Wis.

HORTICULTURE needs a wide-awake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.



NIKOTEEN APHID PUNK
THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
WIDELY IMITATED BUT NEVER EQUALED
UNIFORM AND ALWAYS EFFECTIVE
DON'T ACCEPT INFERIOR IMITATIONS
PRICE 60¢ PER BOX OF 12 SHEETS
\$6.00 PER CASE OF TWELVE BOXES.
NICOTINE MFG. CO. ST. LOUIS, MO.

Garman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse.
Nonpoisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

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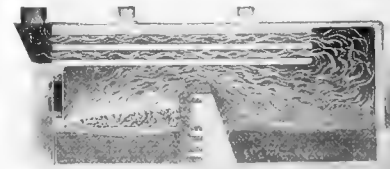
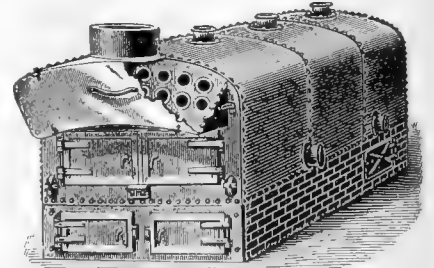
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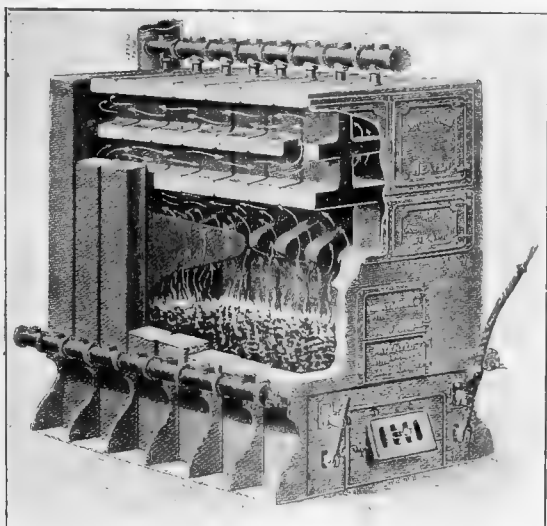
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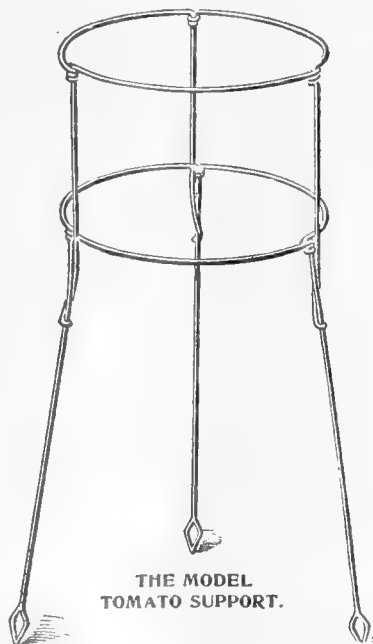
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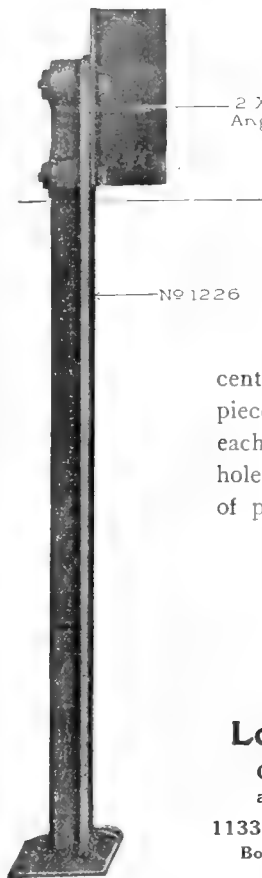
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1 Foot Piece	\$1.85
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Apparent extra cost of foot piece25

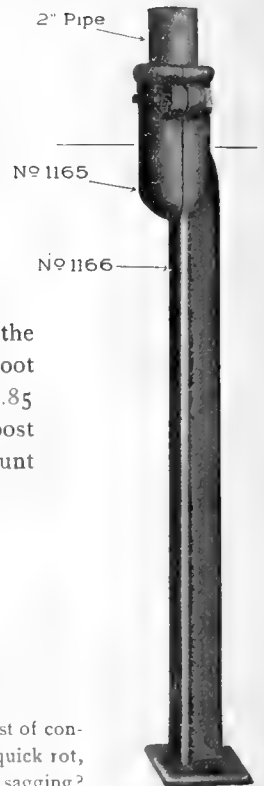
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HORTICULTURE

Vol. III.

MARCH 10, 1906

No. 10



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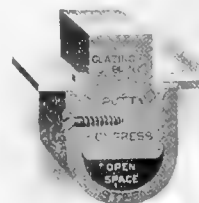
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HORTICULTURE

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MARCH 10, 1906

NO. 10

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ill wind that blows nobody good. The 3
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phia. The varieties are:—

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Aspidium Tsussimense, 3 inch
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Pteris Palmata, 3 inch
Pteris Cretica Albo Lineata 3 and
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Pteris Cretica Magnifica, 3 inch
Pteris Adiantoides, 3 inch
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several others in smaller quan-
tity.

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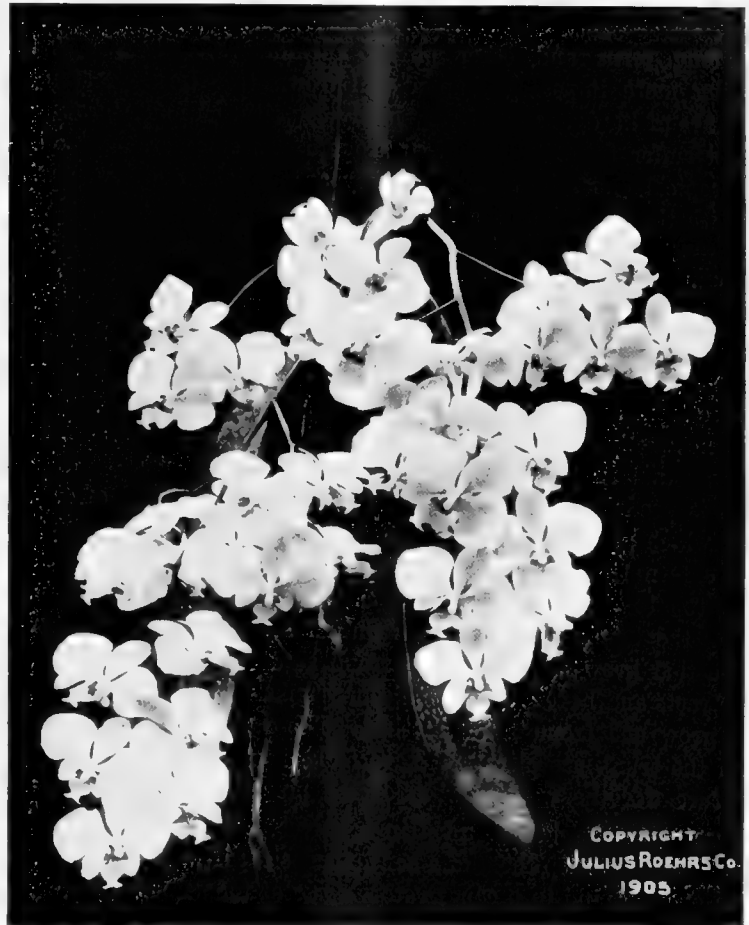
F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, NEW YORK.

Phalaenopsis

These beautiful "moth orchids" may not inaptly be termed the aristocrats of their class, combining as they do superior qualities with the fastidious defects, born of a too sheltered environment. Exquisite! We are all agreed, but too delicately nursed for this utilitarian age; this no doubt is the feeling of the democratic florist with regard to the plants though he may think with regret of their lasting cut flower value when a specially choice arrangement is on hand. For many reasons they will always be sweetly select but no private collection can be complete without a few of these lovely plants.

True epiphytes, they are found at home, growing on trees, overhanging streams in the Malayan islands and being without pseudo-bulbs they have always been difficult to collect and import in good condition; now and again batches of nice young plants with fresh leaves may be seen at the auction rooms tied with moss to sticks but in this state they require careful handling to restore them to pristine vigor. It is safer to begin with established plants.

A suitable quarter for *Phalaenopsis* is sometimes difficult to find; many leading growers after building a special house for them have not met with complete success; the fact is proved that an old house with its peculiar humid flavor suits them best; they flourish better also under a thick glazed roof which safeguards them against excessive light without obscuring this very essential element; too much light they will not stand or the leaves will spot, turn yellow and drop off, and always on hot days a heavy shade is necessary. They may be suspended or placed upon an elevated staging with a saucer under each plant. Delighting, as they do, in plenty of moisture especially in growing season, they should not be kept soaked in winter or dull days, taking care also that water be not dropped into the hearts of the leaves; though they like an airy position, cold draughts and sudden changes of temperature must be carefully avoided. Teakwood baskets are the best receptacles, but orchid pans may be used; baskets should not be too large, as the flat-shaped roots stick most tenaciously to the wood. The whole thing, later on, after being carefully washed out may be transferred to a larger basket without danger. After good drainage, nice fresh sphagnum and a few bits of charcoal only are needed as compost. Temperature should not drop to less than 65 degrees at night in winter or the plants will suffer. In foggy districts the glass must be kept clean as in winter the flower buds are liable to turn yellow and drop off. Cockroaches must be carefully sought at night as they are very partial to the fleshy roots and young flower spikes.



They can rarely be propagated by division and raising plants from seed is of course a slow and scientific process, but *P. Luddeimania* will produce young plants freely on the old flower spikes, which for this reason may be left on the plants. Flower spikes, however, as a general rule should not remain too long on any but the most vigorous of any variety or the plants will be weakened, but, as they last a long time cut if placed in water, this is not a serious disadvantage.

P. amabilis, a large white flowered variety of much charm, is often described as the "Queen of Orchids." *Schilleriana*, however, is perhaps the best all round plant of the species, having beautifully marked foliage and flowers of a soft shade of pink and rose, wonderfully free and graceful in form. *P. violacea* is deliciously fragrant and a good type of the short-flowered section. The whole native family make up about three dozen varieties with a few hybrids of great rarity and beauty. All are worthy of cultivation, though there is a wide range of quality between them. With a complete collection flowers of this beautiful class may be enjoyed almost the year round.

Edgar Elvire

Tree Ferns

(See Frontispiece)

Among ferns and other plants I think there is nothing more imposing than a well-grown tree fern. They are of hardy, some of very hardy constitution and do not suffer from being shifted around. In summer, for tropical effect in the shade, they are a sight and yet with the exception of a few *Balantium antarcticum* and *Alsophila australis*, there are hardly any to be seen in commercial establishments. Young tree ferns are also of great value for general use; they are good keepers, quick growers, and when grown from spores are soon of salable size.

Tree ferns are to ferns what trees are to shrubs; they have no woody trunk and do not grow in thickness in the way that trees do. The trunk of most of the tree ferns is produced by the agglomeration or overlapping roots which grow around the spongy part of the center of the fern from the base of the new fronds growing from top to the bottom over those already there and giving the trunk the thickness required to its height. Those that grow more than one frond at a time make more roots and have generally thicker trunks than those that grow one frond after another. Those roots that form the trunk are alive and have to be kept alive by moisture, for the well growing of the plant.

Tree ferns should be grown in relatively small pots or tubs so as to keep them of a convenient size; if planted in open ground in a conservatory some of them soon grow too big, and reach the roof. Those from the tropical regions, that grow very quickly, have that inconvenience; when that happens they have to be cut back about half their height, like a big cutting, in the spring before they start their growth, and have to be treated like newly imported trunks, but they become soon re-established. The bottom part can be thrown away. With a few exceptions they do not grow any side shoots from the trunk.

On both sides of the equator and in the Southern Hemisphere tree ferns are found in all their beauty in a wild state. In Australia and New Zealand are found the most useful and hardy ones, with heavy trunks and big crown of numerous fronds of very strong texture. The trunks of these species, which are nearly all covered with a thick layer of roots when imported, grow more easily than those from the tropical region which are of a different constitution, the trunk being of a drier nature, with less root covering, and can not stand so much traveling. They dry out quickly and the tops being very soft, rot on the road and give much more trouble to bring them to life again.

It is certainly too tedious to raise them from young plants to perfect ferns, therefore trunks are imported and when shipped in the right time—that is, after their last growth of the season, when they are ripe, dug out or cut off the required length, the fronds cut off, and let dry for a few days before they are packed without soil in ventilated boxes in shavings—they generally arrive

in good condition. As said before, those from the tropical regions require more attention, and if sent in the growing season their loss is nearly certain.

To bring those imported trunks to life again, the best way when they arrive is to put them under a bench in a warm house on a layer of moss and keep them there for a couple of weeks slightly moist, after which time the root taps begin to work, and they can be potted, in pots that allow of about three inches of soil space between rim and trunk; the soil must be of fibrous nature. After being potted, they have to be kept in a warm shady place to start the growth, the trunk being sprinkled three or four times a day.

Like all other ferns, tree ferns are classified in genus after the form of their fruit dots or indusium: *Alsophila*, *Cyathea*, *Dicksonia* including *Balantium* and *Cibotium*, *Hemitelia*. The ferns belonging to these genera are not all tree ferns; in *Dicksonia*, for instance, there are many species which make no trunks or stems; our *Dicksonia* (*Dennstaedtia*) *punctilobula* is an illustration.

There are about two hundred different tree ferns known but very few of them are in cultivation. Here are a few of the most common:

Dicksonia (*Balantium*) *antarctica* is the most seen and one of the nicest; has a crown of fronds sometimes as numerous as fifty together; the short-stalked fronds are from three to six feet long, and about two broad, of a very heavy texture, dark green on top and light underneath; the stalks of the young fronds are covered with long, narrow, brown scales; has a nice regular thick trunk. It is one of the hardiest of the tree ferns, often covered with snow in Australia, its native country.

Dicksonia squarrosa from New Zealand has a flat crown of numerous fronds of heavy texture and of a dark, shining green color; the stalk is covered with numerous black hairy scales.

Dicksonia (*Cyathea*) *Youngiæ* from New South Wales resembles much the preceding. The stalks are covered with light brown scales. These two species, which have slender trunks of a dry nature, have the peculiarity of growing young plants on their surface.

Cyathea dealbata from New Zealand is a very nice and hardy tree fern. The fronds are about six feet long and nearly white underneath with reddish spore masses, which give them a distinct appearance. The trunk is strong.

Cyathea medularis from New Zealand is the biggest growing of the cold tree ferns; the fronds, not very numerous, are about ten feet long in developed plants; the stalks are of jet black color, and in the young plants they are covered with dark brown scales. It is a quick grower and soon makes a big specimen.

Cibotium Schiedei from Mexico has been lately extensively grown from seedlings in this country and some good specimens can be seen. They seldom grow trunks more than two feet high; the long drooping fronds, which grow of big size, are of a light yellow green color, glaucous underneath, of a very graceful effect; they are long-stalked and the stalks covered with brownish hairy scales.

Cibotium princeps (*Cyathea insignia*) from Cuba and New Mexico is a very big-growing stove species;

the fronds not numerous, sometimes twelve feet long, are long stalked, the stalk thickly covered with long light brown glossy scales. The fronds are of a pleasing, light green color, glaucous underneath.

Cibotium regale is another big-growing species from Mexico, resembling much the preceding in form. The stalks are slightly hairy and it is slow to make trunks.

Alsophila australis from Australia is much seen in cultivation. It is a good cold-house fern which grows to quite big proportions. The rough scaly stalks, and leathery texture of the frond distinguish it easily from the others.

Alsophila excelsa from Norfolk Island is one of the hardiest and biggest-growing, cold-house tree ferns in cultivation. In appearance it looks like *A. australis*, but bigger and quicker growing. Seedlings grow soon to useful size.

Alsophila Rebeccæ from Queensland is a comparatively small species. From a smooth trunk the numerous fronds grow two to three feet long, are of a glossy dark green color and of heavy texture; the stalks are nearly black.

Alsophila primata from Jamaica is, like the preceding, a small tree fern with very finely divided fronds of a light green color, glaucous underneath. The stalks are covered with woolly scales at the base. The trunk of this fern, which does not grow more than three to four feet in height, branches out sometimes.

Hemitelia Smithii (*Cyathea Smithii*) from New Zealand is a big-growing species. The fronds are very finely divided. The crown and stalks are covered with long hairy scales.

Lomaria and *Blechnum* are also represented among the tree ferns. We referred to them in a previous article.

Am. D. H. A.

Two Valuable Asparagus Species

ASPARAGUS COMORENSIS

This variety resembles *plumosus* but is of a lighter green and grows faster. Christian Eisele of Philadelphia says it will make three strings for one of the *plumosa*. There are seeds of this variety in commerce but we hear some complaint as to the vitality of same. For the present it will be safest to depend on plants for stock.

ASPARAGUS DECUMBENS SCANDENS

This variety was given to us as *decumbens scandens* but we suspect the *decumbens* to be redundant as the specimen fits the description of *scandens* exactly which is entirely different from *decumbens*. *Asparagus scandens* is a very desirable subject for hanging baskets and elegant for training over a trellis. Grows about three feet, with much-branched, wavy dark green fronds. A very charming variety, the dark green of the fronds together with their graceful formation making it particularly desirable.

G. Watson

British Horticulture

THE WINTER BLOOMING CARNATION SHOW

The cult of the winter-blooming carnation has made great strides in Britain, and the leading American introductions are now familiar to the public. There are several market florists who make a specialty of this branch. On the initiative of Mr. Hayward Mathias arrangements were made for a special show of carnations to be given on February 13th in connection with the fortnightly exhibition of the Royal Horticultural Society. In order to meet the arrangements of the society it was necessary to fix the show in February, but this date was found too late by many of the growers to show their blooms to advantage. Several of the leading specialists, however, made a brilliant display. Two Guernsey growers had a splendid lot of the leading varieties, attesting to the high cultural skill which has been reached in this branch of floriculture in the Channel Islands. The Guernsey growers have the advantage of a longer amount of sunshine than is obtained by their English colleagues. As regards the general display, there were very few novelties to be seen. One of the most attractive was a new bloom, Mrs. A. Burnett, raised by H. Burnett, of Guernsey, an improvement on *Enchantress*, and this received an award of merit from the Royal Horticultural Society.

A NEW SOCIETY FORMED

During the show a meeting of the trade was held for the purpose of considering the advisability of forming a winter-flowering carnation society. There is a National Carnation Society in existence, but their efforts are confined to looking after the summer show. Mr. P. Smith advocated the formation of a society on the lines of the one in America. The Society would be able, he argued, to perform useful work in registering new varieties, and in certificating them after being adjudicated by a body of experts. The society would also be able to arrange an annual show each year, about the month of December, and this would be a very suitable time for the trade. It was the unanimous opinion of the meeting that a society on the lines suggested should be formed. Mr. Brunton was elected chairman and Mr. Hayward Mathias, honorable secretary. A committee was appointed comprising Messrs. S. Mortimer, Boyes, and Cadman, who were instructed to arrange a meeting to be held in London during the Temple show in May at which arrangements will be made for holding the winter show, drafting the schedule, etc., provided the trade take the matter up with enthusiasm. The society should fill a useful place amongst the special societies in existence. As regards effective cohesion florists on this side have a lot to learn from their American colleagues.

W. H. Adsett.

London, Feb. 14, '06.

Forcing Tomatoes

Tomatoes are forced for winter, spring and early summer crops, commanding good prices, and giving fair and often excellent returns. In the West winter-forcing has not been found as advantageous as the spring, but in the East both crops give first rate returns.

For a winter crop the seed is sown during the early part of August if the product is wanted the middle of December; it taking about four months to bring the plants into bearing. In like manner, for a spring crop in April, the seed is planted December 1. After the plants begin to bear they keep it up for two or three months.

The management of both crops is the same. Care must be exercised in heating, watering, and ventilating. While not a very difficult crop to raise it is rather sensitive to careless handling. The aim should be to keep up a steady growth but not fast enough to cause the formation of soft, succulent tissue.

Any house that is light and tight, with sufficient head room, and a heating apparatus that will keep up the required temperature will grow tomatoes. The darker the house the wider should be the distance of planting.

The seed is sown in flats of rich, sandy loam and when the seedlings show true leaves they are transferred to 2 1-2-inch pots from which they are repotted into 4s. The transplanting must be done on time in every case so the seedlings and young plants will not become root-bound. Short, stocky, vigorous plants are desired, something root-bound plants never become, being instead elongated, yellow, and spindling. They are transplanted from the larger size into the beds when the fruit buds form which should be in about ten weeks from the time of seed sowing. Often the stock for the winter crop is grown from cuttings taken from field plants in August and rooted in sand.

Raised benches, solid beds, boxes and pots are all used for receptacles, advocates of the different kinds claiming successful results in each case. Considering the nature of the plant, raised benches six to eight inches deep, built directly over the heating pipes are to be preferred. It is possible, however, to get good crops in boxes twelve to eighteen inches square with a depth of eight inches, or in twelve-inch pots.

The tomato is not particularly susceptible to variations in the kind of soil. A mixture of equal parts of old pasture sod, loam, and horse or cow manure will furnish the necessary elements to carry the plants to the time they set their fruit. Then an addition of one-quarter ground nitrate of soda, one pound of acid phosphate, and one-half pound of muriate of potash per 100 square feet of bed given once in two weeks, will supply all the food necessary if the soil appears to be running out. Or weekly applications of liquid manure is excellent. Many growers differ from this; they advocate the growing of a crop with no manure other than that contained in the soil. However, the tomato is a gross feeder and if the soil is at all deficient in any way fertilizers should be applied.

The tomato requires a high temperature, the range lying between 60-65 degrees at night and 85 degrees during the day, although on continued warm clear days it can go much higher without harm. The air should be kept moist until the fruit begins to set, when the house is run dryer to facilitate the production of pollen. Thorough ventilation without drafts should be given.

Care must be exercised in watering to thoroughly saturate all layers of soil; often the top layer will be soaking wet while the bottom of the bed will be dust dry. Sub-irrigation is the ideal method; this will reduce the blossom end rot, keep the soil porous, and permit of complete saturation. Ordinarily 2-in. drain pipe placed end to end six inches apart in the bottom of the bed will do very well. One end of each line is left projecting and turned up at an angle so it can be filled with water, which, escaping through the joints, will rise by capillary attraction thoroughly moistening the whole bed without packing it down.

It is necessary to train and prune tomato plants. They are usually trained to one or two stems, the kind depending on the variety, the distance of planting, and whether they are grown with a companion crop. If set one foot apart each way they are trained to a single stalk and no companion crop is grown. But when the distance is two feet the two-stem system can be used, and a quickly maturing crop such as lettuce, radishes, or beans can be taken off before the tomatoes require all the space. If the tomatoes are the main crop it is better to plant close and train to a single stem for the yield is greater and comes earlier.

Pruning consists in removing all secondary shoots and suckers on the stems and in pinching the top when the desired height is reached, i. e., six feet. Often three or four leaves are taken off the base of the plant to hasten fruiting.

When the flowers open hand-fertilization is necessary to procure a uniform crop. Choose clear days for this work and have the air dry. Gently shake the pollen off into a spoon and when a visible quantity is collected go carefully over each flower and dip the stigmas into it, at the same time tap off the pollen to replenish the stock. As the amount of fruit set depends to a large extent on the thoroughness with which the fertilizing is done, plants should be gone over every day or at least once in two days. Extra pollen can be kept over from day to day. All the pistils must be fertilized to insure round, uniform, regular fruit.

The yield will vary with the season. The winter crop will average about one pound per square foot of bed, while the spring crop will be double that. From four to eight pounds per plant are obtained.

The varieties best suited for forcing are the early kinds making a moderate growth, of a uniform solid texture and regular shape, such as Lorillard, Long Keeper, Beauty and Stone.

Tomatoes are best shipped wrapped in tissue paper, packed in five pound boxes, stems down, one-half or one dozen boxes to a crate.

Here in the East the crop is especially remunerative, bringing from 50 to 20 cents a pound according to the season. There are but few places where a sufficiently high price cannot be obtained to make tomatoes a paying crop.

R. S. Adams.

Haemanthus



HEMANTHUS MIRABILIS

Haemanthus diadema, is a fine salmon-red umbel, with a diameter of nearly 9 inches, with very ample foliage, forming a plant of a very elegant aspect. *Haemanthus Fascinator*, has splendid heavy foliage, and a beautiful bright red umbel. *Haemanthus mirabilis* carries a dense umbel of a fine orange red, and is still in full bloom with me, and attracting widespread notice, being such an uncommon flower at this season, as the above photograph will show. They were first introduced from the Belgian Congo States and introduced to the trade by Lucien Linden of Ghent. These charming plants, admirable in their elegance and luxuriance of flowers, grow under the constant shade of the great equatorial forest, in small groups of four or five, in very light soil, composed of sand and vegetable debris. The temperature in these regions ranges from 15 degrees to 20 degrees C. and a refreshing coolness reigns which offers a contrast to the heat of the open land. Thus it is certain that these plants would do well in a temperate house, that shade is necessary to them, and that they should be grown in a very light soil. During the dry season the plants are at rest, hence after blooming they should be encouraged to rest by giving them a diminished supply of water.

J. F. Meas.

Chrysanthemums for Exhibition

It is now time for those who grow chrysanthemums for exhibition to be getting their cuttings put in the propagating bench. While we can get good flowers from some varieties propagated in April or May the first of March is none too early for most varieties, especially such varieties as *Merza* that are of a dwarf, slow-growing habit. Plants started into growth now will make a stocky short-jointed growth which is much preferable to that made by plants started in hot weather and will well repay the little extra care, in the quality of their bloom when the flowering season comes.

As to varieties to grow, this must be left to the grower himself as nearly every one has his own fancy and should know the varieties that will do best with him. There are so many sterling varieties on the market now of an almost equal shade of color and size that it is pretty hard to decide which is which. I append a list of 35 varieties the past record of which puts them in the front rank as exhibition flowers.

Yellow: Cheltoni, Col. Appleton, Mrs. William Duckham, F. S. Vallis, Mrs. E. Thirkell, Mrs. William Knox. The first four for long stems and the last two for the short vase class. The last-named is a new one being introduced this season and will be sure to make good in a collection. It is of the Carnot type and a fine free grower.

White: *Merza*, Guy Hamilton, Mrs. D. V. West, Ben Wells, Timothy Eaton, Nellie Pockett.

Pink: William Duckham, F. O. Cobbold, Leila Filkins, Mrs. Geo. Mileham, W. A. Etherington, F. Richardson.

Red: Mrs. Henry Partridge, John Shrimpton, Lord Hopeton, S. T. Wright, Maynel, Harry Barnes, H. J. Jones. The first named is being introduced this season and in my opinion is one of the finest ever put on the market; a good free grower with fine stem and foliage and does not burn as most reds do. Those in need of a good red should get Mrs. H. Partridge.

Other colors: John Fraser, Ethel Fitzroy, Mrs. J. A. Miller, Mrs. Thos. Lee, Mrs. Carrington, Mrs. Chas. Longley, Donald McLeod, W. R. Church, Mrs. Geo. Haume and Mrs. John E. Dunne. The last two are new, both of them good, easy doers. Mrs. Geo. Haume is a salmon buff. Mrs. John E. Dunne in color is very distinct; might be called old rose. This is certainly an acquisition for the exhibition tables.

Pot plants that are intended for exhibition should by this time be getting established in 5-inch pots. Do not let them get pot bound; keep shifting them right along as fast as they will need it from one size to another until they get into their flowering size. If they get pot bound at this stage they will surely send up flowering shoots and that means very much smaller plants than they would have been if the conditions had been different. Pinch regularly; as soon as the tip of the shoot can be caught between the forefinger and thumb is the time to do it, not when the shoot gets four or five inches long when shoot has become woody and hard and takes a much longer time to make a new break.

William A. Riggs

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager.

Our rose number next week

The next issue of this paper will be a notable one in honor of the approaching meeting and exhibition of the American Rose Society at Boston. Rose topics will lead and there will be many fine illustrations besides a splendid colored supplement, depicting the beautiful new H. T. rose, J. B. Clark. Don't fail to get a copy.

Our frontispiece

Our frontispiece shows a beautiful view in Grenada for which we are indebted to Robert Cameron of Harvard Botanical Garden. It serves as an appropriate accompaniment for the excellent contribution on tree ferns which appears in this number, from the pen of that eminent fern authority, Amedee Hans. The scene of the picture is in the mountains 1800 feet above sea level.

Humbugs abroad

We read some amusing stories of wonder-workers in foreign lands which show that we have no monopoly of the humbugs. The Frenchman who has turned a radish into a potato is now in the lime light and that student of psychology—also a Frenchman—whose plants droop when he feels melancholy and respond with animation when he is happy, is still going the rounds of the magazines and daily papers.

Florists' working hours

An uneasy feeling prevails among the florists in English cities concerning the prosecution of several of their number for infringement of the provisions of the Factory Act, so-called, and a disposition is manifested to resist the placing of their business under the operation of this act. In this country the florist has not had much interference, thus far, with the generally accepted hours of labor, which, it must be admitted, are at some seasons very long and at all times very irregular. Such is the nature of the business, however, and so transitory are the goods handled, that

an arbitrary restriction of the hours of employment would seem impracticable. Perhaps one reason why florists' employees are so resigned to the demands made upon them is their fondness for their work. As a rule, however, employers here are reciprocally appreciative and, very properly, grant considerable freedom of time when conditions permit.

The Dayton outlook

The executive board of the Society of American Florists and Ornamental Horticulturists has been holding its regular spring session at Dayton this week. The convention in the attractive little Ohio city next August should afford a timely opportunity for the introduction of unique features and no doubt the executive board under its hustling young president will have taken full advantage of the situation. It is generally conceded that in the smaller cities where the society has convened the absence of outside allurements has contributed not a little towards that condition of unanimity and concrete enthusiasm which counts for so much when the final summing up comes and the record made of the work that has been done. We look for substantial and far-reaching results from the Dayton convention and hope to see the cause of American horticulture greatly advanced through the well-directed efforts of the S. A. F. throughout the year.

American carna- tions winning rec- ognition in England

It is very gratifying to read of the rapid advancement of the American carnation in the estimation of growers and the public in England. Until quite recently the prejudice there against the class of carnations popular in this country, on account of their fringed petals and other characteristics, was deep-seated. Now a special society devoted to the interests of this "winter-flowering" section, as it is designated over there, has been formed and has the promise of enthusiastic support. At the recent show of the Royal Horticultural Society in London, American varieties were conspicuous, high awards being won by collections containing Lawson, White Lawson, Enchantress, Victory, Nelson Fisher, The President, Lady Bountiful and many others in our list of favorites. As our British brethren never stand still in matters horticultural it is reasonable to expect something from them before long in the way of advancement. One English journal, commenting on the present movement, expresses the view that further breeding for size is not advisable but that increased fragrance should now be sought. We heartily coincide on the point of fragrance, and believe that it should be given greater prominence in our judging scales for carnations and also for roses.

The price of HORTICULTURE is but one dollar a year. Every page is edited to be helpful to its readers. Every inch of advertising represents a live business concern.

Watch Your Opportunity

TRANSPLANTING NOTES.

Although many men profess to understand transplanting, yet few have results that substantiate the claim. Many seem to believe that a short period of digging gives them this knowledge. Every season the results from such experience (?) is seen, and generally the blame is placed on the poor nurseryman. In considering the essentials in successful transplanting, thought must first be given to the stock itself. Why will so many allow price to be the only factor in deciding where they will purchase? A plant is quite different from any ordinary purchase, because if unsatisfactory, it means not only the loss in money, but time.

When plants are ordered, the ground in which they are to go should be prepared, if weather permits. Give them large holes, and if the soil is heavy and of a clay composition, dig a foot deeper than customary and fill in with broken stone or ashes for drainage. Good soil should be used in filling in on the roots, using, if necessary, about 15 or 20 per cent. manure, with the ordinary top soil.

When trees arrive plant at once, or heel them in temporarily. If received in frozen condition, they should be placed in a dark cellar where the temperature is a few degrees above freezing, and allowed to thaw out gradually. Care should in all cases be exercised to see that roots are not exposed to sun or wind.

A word regarding pruning will not be amiss. A nurseryman seldom, if ever, prunes unless told to do so. In digging, a certain percentage of roots is destroyed, and a corresponding amount of wood should be taken from the top. If the transplanting occurs early in the spring, severe pruning is not necessary for soft wooded trees, such as willows or poplars. Harder wooded ones, such as oak and beech, should be given a little more pruning, as they do not make many fibrous roots, and therefore stand a time before making marked progress.

When the transplanting is attempted after the plants have started to leaf, they should be severely pruned, and if a drought occurs the ground should be kept moist. In planting, see that the soil is worked in among the root fibres. It is a mistake to pour water in, as there are sure to be air spaces after the water drains away. It is better to plant without water, packing the soil well in and then soak the ground, and after the soil has settled, fill to the level of the ground and give a mulch of manure.

WARREN J. CHANDLER.

PERSONAL.

Charles Guelph, of Rice & Co., was a visitor in Cleveland last week.

Charles Beck, chief gardener at the National Soldiers' Home, Dayton, Ohio, for past thirty years, suffered a stroke of paralysis, March 1st, and is not expected to live. He is seventy-nine years of age.

WHAT THEY SAY OF US.

Inclosed please find postal money order for subscription to HORTICULTURE for 1906. Am well pleased with it. Every number is improving.—S. J.

OBITUARY.

Michael O'Donnell, one of the well-known market gardeners of Revere, Mass., died on March 2 at his home, aged 78 years. He was a member of the Boston Market Gardeners' Association. He is survived by three sons.

William T. Pierce, for ten years chief engineer for the Metropolitan Park Commission, who resigned about a year ago, on account of ill health, died February 26, at his home in Waverlytown, Mass. He was 41 years old. He leaves a widow and a daughter.

Jesse Beebe, 25, an employee of the Miami Floral Company, at Dayton, was struck by an engine and instantly killed at the railroad crossing on Monday, March 5th, while carrying flowers to the banquet hall where the executive committee of the S. A. F. were to be entertained.

Peter Patterson, for nineteen years in charge of R. A. Grannis's country seat at Morris Plains, N. J., died on February 16. He was a native of Scotland, a man of ability and held in the highest esteem by his brother gardeners. He was 76 years old. He lost his wife six months ago. A sister and brother survive him.

Frederick W. Ritter, a leading florist of Dayton, Ohio, since 1832, died on March 1st, in the ninety-third year of his age. He had been in the greenhouse business since he was 13 years of age, and worked in the establishment of his son, Herman H. Ritter, at Dayton, up to within two weeks of his death. His death was caused by a fall downstairs.

PENNISSETUM MACROPHYLLUM
ATROPURPUREUM.

Translated from "Moeller's D. G. Ztg.," by G. B.

The Pennisetum m. atrpp. is one of the best introductions in recent years. It is an ornamental grass of a very impressive effect, produced by the deep-brown coloring of its long, elegantly carried foliage as well as by the silver-rose color of its flowers, making a very charming contrast, and being comparable to a colored fountain.

The plant is a perennial to be kept in winter in most any place in a cool house; the new shoots start in spring with very little heat and when placed outdoors in a rich-soiled sunny location will grow very rapidly into an elegant decorative plant.

HORTICULTURE needs a wide-awake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

WHOLESOME CHESTNUTS.

Get early cabbage and cauliflower plants into frames to be hardened before planting time.

When not absolutely necessary, fire heat ought to be dispensed with in the day time, utilizing the sun heat to the fullest extent in preference.

With one good watering shortly after heat is turned on, the grapery border will not require much more until growth has progressed considerably.

Don't place anything in a cold frame immediately after potting if you want growth to proceed without interruption, better wait until they are somewhat established.

If grape vines have been tied down to break, they ought to be untied and fastened permanently to the vines before the shoots attain the length of being easily broken in handling the vines.

Do not let cucumbers in full bearing in shallow benches suffer for want of water; top dress the bed with soil and some fertilizer, remove all deformed fruit and avoid heavy cropping which soon cripples the plants.

Continue propagating by seed sowing and cuttings, if you have room. Don't let last year's number be your limit; then, when the time comes, if you need them you'll have them, but if you don't save them, and need them, it would have been better if you had them.

To help the setting of fruit on peach and nectarine trees, shake the branches at the time of day when the sun is brightest. Attend early to the dis-budding of peaches and nectarines. An hour devoted to this work in time is better than a long, wearisome day when it is too late.

FORCING THE VARIEGATED MA-
PLE (ACER NEGUNDO VARIE-
GATUM) FOR WINTER
DECORATIONS.

Translation from a German Trade Paper.

Choose well-branched plants, either standards, pyramids, or bush form. Use smallest possible pots; after potting, lay plants outdoors flat on their sides on the ground, cover branches with leaves to protect against very severe frosts. After slight freezing take plants into the house—say in November to December—give plenty light, start with 60 degrees and gradually increase to 90 to 95 degrees Fahrenheit. During all this time water the plants freely and syringe the wood liberally. Four to five weeks of such treatment should produce the foliage and plants ready for decorating. For forcing, the wood should of course not be pruned. This same treatment holds good for the Japanese maples; treated thus, they will be in foliage easily within five weeks.

James B. Kidd is connected with the Hinode Florist Co., New York, and not with the Yokohama Nursery Co., as stated in our last issue.

If you want to do business with rose growers or rose dealers, advertise in our Rose Number next week. Send copy at once.

NEWS OF THE CLUBS AND SOCIETIES.

AMERICAN ROSE SOCIETY.

Members of the American Rose Society are hereby reminded of the approaching meeting of the society and the annual exhibition which is to be held at that time in connection with the spring exhibition of the Massachusetts Horticultural Society.

Intending exhibitors will please communicate with the secretary, who will forward, upon request, schedule for the exhibition and entry cards as called for.

Entries must be made in all cases under the schedule number in accordance with the rules of the society.

It is earnestly hoped that members will make an effort to be present and to do their part in making this meeting a notable one.

The exhibition will open at noon on Friday, March 23, continuing until Sunday night.

The annual meeting of the society will open at 7.30 p. m. on Friday, March 23.

The transaction of business will be in the following order: Calling to order; Reading minutes of previous session; Reports of standing committees; Reports of special committees; Miscellaneous business; Essays—Discussions; Election of officers; Appointment of committees; Adjournment.

Under the order of essays and discussions, addresses will be made as follows:

"Recent Advances in the Practice of Rose Growing for Cut Flowers," by J. J. Curran, Elmira, N. Y.

"The Retailer's Part in the Introduction of New Roses," by George Asmus, Chicago, Ill.

"The Mail Order Trade," by P. J. Lynch, West Grove, Pa.

"The Deterioration of Forcing Roses: Its Causes and Effect." A discussion, to be opened by A. Farenwald, Roslyn, Pa.

Question—Should the Rose Society issue Certificates to New American Roses?

On Saturday evening, March 24, a banquet will be tendered to the American Rose Society visitors by the Allied Horticultural Interests of Boston, under the auspices of the Gardeners' and Florists' Club of Boston, at the Hotel Brunswick.

The officers of the society are: President, Alexander Montgomery, Natick, Mass.; vice-president, Robert Simpson, Clifton, N. J.; treasurer, Harry O. May, Summit, N. J.; secretary, Wm. J. Stewart, 11 Hamilton Place, Boston, Mass.

Executive Committee—M. H. Walsh, Woods Hole, Mass.; A. Farenwald, Roslyn, Pa.; H. A. Siebrecht, New Rochelle, N. Y.; Peter Crowe, Utica, N. Y.; W. N. Craig, North Easton, Mass.; John Burton, Chestnut Hill, Pa.; P. Welch, Boston, Mass.

Judges for Exhibition of 1906—J. F. Huss, Hartford, Conn.; S. S. Pennock, Philadelphia, Pa.; J. J. Curran, Elmira, N. Y.

PHILADELPHIA FLORISTS' CLUB.

The monthly meeting of the Florists' Club of Philadelphia was largely attended, the main attraction being an address on "Railroad Gardening" by Paul Huebner of the Reading system. Another magnet was a promise of some new rose exhibits but Kate Moulton was the only visitor. This variety was staged in very good condition considering that it had been on the road four days. It is a silvery pink with deeper center, large size and good form, and looks in its color and make-up somewhere between Testout and La France. The stem and foliage are very good and altogether it appealed to the experts present as a most promising variety. This club does not give awards of any kind else this new comer would have been duly decorated as it deserves. P. Joseph Lynch of the Dingee & Conard Co., was most enthusiastic in praising the work of such men who can give us American varieties of this merit so far superior to much that we get from Europe. A general discussion on the merits of other roses took place. Adolph Farenwald, Stephen Mortensen, Robert Craig, Edwin Lonsdale, Chas. Mehan and others took part. Antoine Wintzer of West Grove gave some illuminating remarks supplementary to what Mr. Huebner had to say about the best varieties of cannas. Altogether this meeting was one of the most instructive and interesting ever held by the club. Ladies' night was announced for Thursday, March 22nd. The special feature of the April meeting will be an address on Easter plants by Robert Craig. Carnation Glendale was exhibited by Messrs. Vesey of Fort Wayne. Jno. E. Haines sent his new scarlet carnation and also a number of promising seedlings.

CLEVELAND FLORISTS' CLUB.

The carnation exhibit of this club was in every way successful, inasmuch as the flowers were the finest yet shown. The committee, Adam Graham, Ed. George and M. J. Meyer, reported on the stock in very favorable terms. Wm. Brinker showed a vase of 25 each of Fred. Burki, Lady Bountiful, Flamingo and Enchantress, sent by Fred. Burki of Pittsburgh, that were exceptionally fine; Merkle & Son, Mentor, O., a vase of the finest colored Lawson there, also some very good Enchantress; Bate Bros., a vase each of Cardinal, one of their own seedlings, White and Red Lawson and Enchantress; John Blechschmidt, Lawson and Enchantress; Asher Coe exhibited some Albertina; Roman Wasco and H. Carlton, violets Prince of Wales and Gov. Herrick. Mr. Carlton was complimented on the good keeping qualities of his Gov. Herrick. John Kelly, a vase of Princess Narcissus; G. M. Nauman, a vase of very large cyclamen. The finest blooms were undoubtedly those of the Ohio Floral Co., Enchantress, Flamingo and Lawson carnations, with stems at least 30 inches long and flowers 4 to 5 inches across, also two vases of Bridemaids and Golden Gates, conceded to be the finest flowers yet shown.

A DAYTON SYMPOSIUM.

The executive board of the S. A. F., meeting in Dayton this week, was entertained on Monday evening at an elaborate banquet, the hosts being Vice-President Altick and a number of the local florists and supply people. The banquet table was resplendent with flowers contributed by Dayton florists and the E. G. Hill Company, and tastefully arranged by Mr. Shaeffer. The menu cards were green and gold, cut in the form of the rose leaf badge of the S. A. F., and very pretty.

Vice-President Altick presided. He expressed the hope that this meeting of the committee might be the prelude to the most successful convention in the society's history, successful for the society and beneficial to the community where it was meeting. He spoke of the favorable prospects for an outdoor exhibition in connection with the convention and referred to other existing conditions in Dayton that would contribute to making the convention unique in many ways. President Kastling was the first guest called upon. He made a witty, jovial speech, complimenting Dayton on its fine streets and prosperous business aspect, and predicting a widespread interest on behalf of the coming convention. Ex-President J. C. Vaughan spoke in complimentary terms of Dayton's example and influence in the home-adornment movement and the opportunity to make the program fit the possibilities of these surroundings, which the society should grasp, and urged that the organization should draw away from questions of mere merchandizing and take stand on higher ground.

Secretary Wm. J. Stewart followed with complimentary allusion to the hospitality extended the visitors and the many avenues open for co-operation between the local people and the society officers to achieve an unprecedented success this year on broader lines than ever before. E. V. Hallock spoke of Dayton as a grand example of the enterprising modern town and urged that every florist in the section should enroll himself as a member of the S. A. F. If small, he would grow; if young, he would learn something, and if old, the society might learn something from him. W. H. Elliott gave a brief account of a recent visit to Havana and the primitive florists' cultural methods in vogue there, but submitted that sometimes the best lessons are learned from unexpected sources, and instanced a marvellous phenomenon in rose-growing he had seen in the old Spanish city.

E. G. Hill prescribed "Opportunity, ability, and faith," as a good motto for the S. A. F., and said that if the florists of America will only wake up to their opportunity there is a heritage within their reach, for the civic improvement sentiment is spreading like a prairie fire, and there is a growing demand for ornamental shrubs and herbaceous stock in vast quantities, and the cut-flower men are called upon to wake up and do their share in the onward movement. P. J. Hauswirth and F. H. Traendly next contributed some characteristic Hauswirthisms and Traendlyisms with pleasing effect. George Asmus gave a

very practical talk, agreeing with Mr. Hill as to the outlook and the florists' duty. Although prominently identified with the sporting element, he felt that nine-tenths of every florist's career must be hard work, and urged that all should "get busy" on the new lines now offering. E. G. Gillett spoke for Cincinnati and said many nice things about Dayton, all of them true, and promised a great treat for all who should visit the convention next summer.

Among the local speakers were S. Karpf, secretary of the National Bowling Association; George Shaw and Mr. Newman, of the Dayton Paper Novelty Company; Mr. Storrs, of the Dayton Fruit Tree Label Co.; Mr. Lutz, of Aul Bros.; Mr. Bartholomew and Mr. Shaeffer, all of whom expressed the most cordial, hospitable sentiments. Mr. Karpf made a most inspiring speech, promising that although under democratic administration Dayton would take the lid off for the S. A. F. next August.

NEWPORT HORTICULTURAL SOCIETY.

The regular meeting of the society was held last Tuesday evening, President Alexander MacLellan in the chair.

The president submitted his report as a delegate to a meeting of the Rhode Island Society for Rural Progress. The president of the College of Agriculture, Mr. Butterfield, is very enthusiastic in the movement, and is confident that a great deal can be accomplished by the society, composed, as it is, of prominent men from all parts of the State. There are prospects of the Newport Horticultural Society's grant from the State being considerably augmented this year, which, if they materialize, will enable the society to considerably extend its work.

After the meeting adjourned a group of members were heard in discussion over matters relating to the late carnation exhibition at Boston. The sentiment was voiced that it was a splendidly representative show.

LENOX HORTICULTURAL SOCIETY.

The regular meeting of the society was held March 3, President S. Carlquist in the chair. This was carnation night, but owing to such incessant wet weather all day, there were not many flowers on exhibition. W. J. & M. S. Vesey, Fort Wayne, Ind., sent, at the suggestion of Mr. A. F. Boddington, some of their new carnation Glendale, which unfortunately arrived very badly bruised and shaken up. They were accorded a vote of thanks. Among the exhibits were some very fine White Lawson, Nelson Fisher, Flamingo and Enchantress. A letter was read from W. J. Stewart, secretary of the American Rose Society, cordially inviting all the members to attend their annual exhibition in Boston, March 23, 24. A special meeting was held March 5, to pass upon the new rose, Miss Kate Moulton, from Minneapolis Floral Co., Minneapolis, Minn. It was awarded a first-class certificate. The next meeting, March 17, will be rose night.

GEORGE FOULSHAM, Secretary.

TARRYTOWN HORTICULTURAL SOCIETY.

The regular monthly meeting was held on Tuesday evening, February 27. President Mooney in the chair. The W. K. Wilkes prize, a set of flower vases, was won by Mr. Langle of White Plains, with a bunch of the Farquhar violet; he also showed a promising new variety, a sport from the above. Other exhibits were Alma Ward, Robert Craig, and an unnamed pink by C. W. Ward; F. R. Pierson Co., a vase of Winsor; David MacFarlane, a new variety of tomatoes, some of the fruit stock having ten to twelve ripe tomatoes on them. A discussion on the questions left over from the January meeting followed.

FLORISTS' CLUB OF WASHINGTON.

At the meeting of the Florists' Club of Washington, March 6, Peter Bisset, who has been secretary for two years, was elected president. Mr. Bisset was



PETER BISSET

born in Auchtermuchty, Fifeshire, Scotland, on April 24, 1869, and in early boyhood was inspired with a love for the profession in which he has made such creditable advancement. He came to this country in 1889, and for the past fourteen years has had charge of Twin Oaks, the beautiful home of Hon. Gardiner G. Hubbard.

PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

It was rose night at the meeting, March 6, and the display was so large and of such fine quality that the members were eager to hurry through the routine business and discuss the rose. The Minneapolis Floral Co. exhibited a large vase of Miss Kate Moulton. It is a far cry from Minneapolis to Pittsburgh, but this young lady made the long journey in good shape. Good stem, good foliage and the slightly different shade of pink at the ends of the curved petals give it a very pleasing effect in artificial light. W. H. Elliott

of Brighton, Mass., sent six plants each, grafted, of Wellesley and Killarney in pots. It was much regretted that cut blooms of Wellesley were not shown, as this rose while popular in the East, has not been shown as grown in Pittsburgh. W. A. Manda of South Orange, N. J., sent a box of cut blooms of the Cherokee rose—a new rose to many here and very attractive; Jno. L. Wyland, De Haven, Pa., a vase each of Bridesmaid, Bride, Richmond and Mme. Abel Chatenay, the Richmond and Chatenay attracting special attention. The Richmond was grafted stock. H. L. Blind & Bros., West View, Pa., showed Richmond on own roots; a vase of Killarney, Bridesmaid and Bride, grafted stock; blooms of American Beauty; and Baby Rambler and Crimson Rambler in pots. The Pittsburgh Rose and Carnation Co., Gibsonia, Pa., showed vases of Perles, Mme. Cusin, very free blooming; Bon Silene, handled only in the bud; Killarney, Bridesmaid, Bride, Chatenay and Richmond. The Florists' Exchange of Pittsburgh—vases of Bridesmaids, Ivory, Chatenay and very fine Queen of Edgely; David Fraser, gardener with H. C. Frick, fine Killarney; S. J. Hatch of Pittsburgh, carnations; G. & J. W. Ludwig of Allegheny, Gen. McArthur rose and carnations in variety. Neil McCallum, in his paper on "Outdoor Roses," spoke enthusiastically of roses as he had seen them growing out of doors in Australia. The subject for the April meeting will be "Eastern Plants and Flowers."

H. P. JOSLIN.

NEW JERSEY FLORICULTURAL SOCIETY.

Trentham, so recently given by the Duke of Sutherland to the English people for purposes of higher education, was presented pictorially and descriptively to the society by George Austin on the evening of March 2 at their regular monthly meeting. The speaker, who had a personal acquaintance with the place of more than twenty years, described its situation upon the Trent river, its enormous extent, being five times the size of Central Park, New York, the planting of its beds, management, accommodation of its gardeners, their pay and condition, and answered the many questions upon the maintenance of perpetual flowering in its parterres, its three miles of glass-covered walks, and fruit all grown out of season, with none grown higher than a man might reach to pick.

The monthly floral display maintained its usual excellence and was representative of its best growers. There were orchids from Lager & Hurrell, Julius Roehrs Company and Thomas Jones, a display from the houses of William Barr, grown by A. W. Bodwell, which filled an entire table, the Nicotiana Sanderae rising above the group of dendrobiums, cattleyas and cypripediums and lycastis; carnations from the Colgate, Runkle and Hathaway estates; roses from Col. Potter; antirrhinum, stocks and carnations from A. C. Van Gaasbeek, grown by William Bennett, a specimen Adiantum cuneatum, from J. Crosby Brown, grown by Peter Duff. The judges were Edward Rochers, George von Qualen and A. L. Caparn.

J. B. DAVIS.

ROBERT CRAIG

The Best SCARLET ever offered to the trade.

We can make immediate delivery of rooted cuttings of the above variety.

\$12.00 per 100. \$100 per 1,000.

J. D. Thompson Carnation Co., Joliet, Ill.

RAILROAD GARDENING

(Remarks by Paul Huebner, Superintendent of Gardens and Grounds of the Reading Railroad System, at the monthly meeting of the Florists' Club of Philadelphia, March 6, 1906.)



AT READING RAILROAD STATION, PA.

I have been requested by your committee to say something about the subject of railroad gardening. I had the pleasure of appearing before you on the same subject a number of years ago, and while I do not know that I can tell you anything further now, I can at least refresh your memories on some of the salient features of this particular phase of horticulture.

The most important point in railroad gardening to my mind is how to achieve effectiveness at a minimum of cost. Around this fundamental idea all our thoughts and efforts concentrate and from this radiates all that we do and all that we leave undone. A railroad company does not beautify its station grounds for philanthropic reasons. The basic idea is to increase traffic, and to do this, surroundings are made as attractive as possible. Another point we have aimed at is hedging for the purpose of preventing snow-drifts, as well as for ornament. For this purpose we have found nothing to beat the California privet. We have heard some complaint as to the hardness of this

plant, but our experience has been very fortunate. We have lost but few even in the bad years that killed off so many in this latitude. The Osage orange we have discarded entirely. It is subject to scale and the robber roots run all over the adjoining field. Besides that, it is very hard to trim unless when it is in the soft state. California privet is very easily trimmed.


During the years that have elapsed since I talked to you before the most decided change that has taken place in methods is the increased use of hardy herbaceous plants and evergreens. The evergreen is not only showy in summer, but is soothing and picturesque in winter and gives that pleasing touch to the landscape which we all so much appreciate. All the thuja and retinosporas are good, but I do not recommend the arbor vitae on account of the bag worm. For embankments we find the Scotch broom a very satisfactory shrub. We do not use the Wichuriana rose much for embankments, as it costs too much to prepare the soil. For shrubbery groups the weigelia, forsythia, labur-



AT TRENTON JUNCTION, N. J.

num, Prunus Pissardi, and amygdalus are excellent. Of course we have to depend on the old fashioned carpet beds to brighten things up with color around the stations. Our best scarlet geranium is Denison's seedling, and we also use a good many of John Doyle, which is the same color. S. A. Nutt is too dark for railroad purposes, and it does not clean itself enough. La Pilot is about as dark as we can use effectively, but this variety is running out somewhat, and we need one with a better constitution. In pinks we pin our faith to Glorieaux. La Favorite is one of the best whites I have tried.

In cannas, we still believe in Fuerst Bismark. It is an elegant bright scarlet with green foliage, a fine grower and blooms all the time. It also cleans itself nicely and always looks fresh and bright. Madame Berat is a good pink and is grand all by itself in a big bed. We like Buttercup better than Florence Vaughan for a yellow. Of the giant orchid-flowering cannas, we like Kate Grey the best. For a large bed twenty or thirty feet in diameter, this is hard to beat. Bouvier, Egandale, and Madame Crozy are still



The Fumigating Kind Tobacco Powder is without doubt THE ALL of the things now on the market for killing Green Fly; it's good stuff or we would not use it.

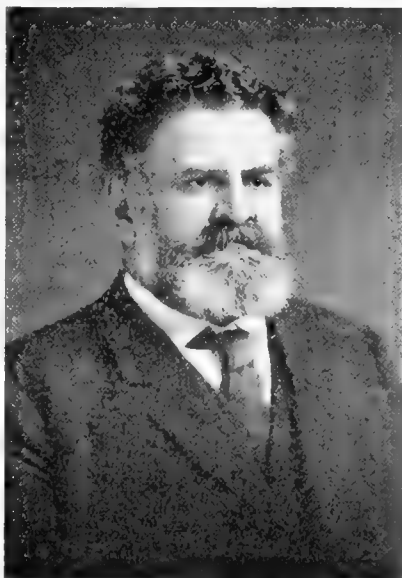
H. HEEPE, Akron, Ohio.

Why not ask for a free five pound trial sample. It's convincing, it only costs you the express charge. It's no new fangled thing, hundreds write of it like Mr. H. Heepe. Our booklet tells how to fumigate a house 100x25 feet with it for fifteen cents. THE H. A. STOOHOFF COMPANY, 119 West Street, New York City, N. Y.

among our stand-bys. For a good, all-round dark foliaged variety, Egandale is still in the race. One of our most effective pieces of bedding last season was composed of cannas, and Souvenir d'Bonn Abutilon with Coleus Verschaffelti. Another was composed of Admiral Avellan canna, scarlet sage and, next the grass, Coleus Verschaffelti. This had a fine effect—flowers red, foliage red, the whole thing red—wonderfully striking indeed. We use Eulalia quite freely for oriental effects; but the arundo and pennisetum is not hardy enough for us. The dwarf-growing begonias, such as Vernon and other semperfluous varieties, are very useful and keep in bloom all summer long. They look best with an edging of Madame Salleri geranium. A combination of Abutilon Savitzi and acalypha makes a beautiful contrast. We still use the Golden Bedder coleus. It is hard to beat as a good all-round yellow. Nero and Verschaffelti are also good. We use peonies freely, mixed in with the shrubbery. Hardy phloxes are now much in vogue, and we are finding them most valuable. For back grounds the hardy sunflowers are grand, and there is now a fine variety of these to choose from. Anemones, tulips, crocus, and other things that cannot be seen in winter we leave alone, as railroad workers have no respect for anything they can't see. Everything goes right under when they get at it with pick and shovel.

From what I hear, Philadelphians are quite proud of the ornamental character of the Reading Railroad stations in their vicinity. It gives them something to point to with satisfaction

when strangers are around, besides being pleasant to look at for themselves. Personally, it would not be in good taste for me to talk about that, but I may be pardoned for saying that in my recent travels through the south, I saw nothing in the same line that I wanted to take my hat off to. I did see a few wonderful things, however. One of them was the croton



PAUL HUEBNER.

hedges in Florida. Imagine a hedge of this brilliant foliage plant eight or ten feet high and splendidly developed. This was a revelation to me and really a grand sight. The hibiscus, single and double, was in bloom during my visit and was simply covered with thousands of blooms. These latter were especially fine in the English col-

ony in Nassau. But as a rule, the southern country looked to me poor and miserable. A trip to Atlantic City is a treat in comparison. When you come to a hotel it is O. K., but outside of that you might as well go to sleep.

NEWS NOTES.

The Flynn greenhouses, so long a landmark at the lower end of Essex St., Lawrence, Mass., have been torn down to make room for a new brick block.

The formal opening of the establishment of the Chicago Rose Company, 56 and 58 Wabash avenue, Chicago, took place on Thursday, March 8, and invitations were sent out to the trade to visit them from 8 a. m. to 7 p. m.

H. D. Hemenway, director of the School of Horticulture, Hartford, Conn., has sent his resignation to the board of trustees, to take effect April 1. It is said that Stanley H. Rood, who is supervisor of manual training in the high school, will succeed him.

The death of Robert Cocking, a wealthy florist of Danbury, Conn., brings to light an unlooked for disposition of his estate. Some seven years ago, his nephew, Hedley H. Tomlinson, arranged with him to take care of him and run the business, in consideration for the property. Now there appears a will made three years ago which leaves the property to Mr. Tomlinson's sisters in England.

HORTICULTURE needs a wide-awake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

The Cottage Gardens

Contain the finest assortment of selected specimen Evergreen, Deciduous Trees and Shrubs procurable, and its Landscape Department is at your service in arranging them. Price list ready now. Has tables of the best herbaceous plants, giving common and botanical names, height, color and season of bloom. Sent free. All inquiries cheerfully answered.

COTTAGE GARDENS CO., QUEENS, L. I.

ADVERTISEMENTS

for Rose Number should reach us by March 12.

Thorburn's Seeds

ASPARAGUS PLUMOSUS NANUS

At \$5.00 per 1000 Seeds.
Reduced price on large quantities.

Our wholesale price-list for Florists and Market-Gardeners is now ready for mailing, and will be sent free on application. It contains a full assortment of the choicest seeds of the highest grade.

LILY OF THE VALLEY PIPS CYCAS REVOLUTA STEMS

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Vegetable and Flower **SEEDS**
Reliable and Tested. Catalogue Mailed Free
WEBER & DON
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Blue List of Wholesale Prices mailed only to those who plant for profit.

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JAPAN LILIES SEEDS FOR FLORISTS
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Seeds and Agricultural Hardware
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HIGH GRADE FORCING BULBS
Agricultural Implements
SEEDS

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COLUMBIA, ALASKA, BOHEMIA
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Fresh Spawn Always on hand.
WRITE FOR PRICES.
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HELLER'S MICE PROOF SEED CASES.
SEND FOR CIRCULARS
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For Sowing Now

ASTER—Queen of the Market. Extra Early. Colors: Dark Blue, Light Blue, Pink, Scarlet, White and Mixed. Each trade packet, 20 cts., 60 cts. per ounce.

ASTER—Truflant's Paeony Flowered Perfection. Colors: Crimson, Light Blue, Pink, Purple and White. Each trade packet, 30 cts., \$1.50 per ounce. Mixed, trade packet, 30 cts., \$1.25 per ounce.

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Send for Wholesale Catalogue.

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All the Standard Varieties at your own Selection at 40c. per pound, mailed free, anywhere.

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QUALITY SEEDS BULBS PLANTS
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342 West 14th St., New York.

OUR SACRIFICE OFFER

Subject to being unsold on receipt of order.

Spiraea Japonica (case of 225) per full case \$7.00
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Every order of \$10.00 or more will receive a free trial packet of 100 seeds of Spiraea Japonica.

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200 POUNDS TOBACCO IN ONE PINT NIKOTEEN
Nicotine Mfg. Co., St. Louis, Mo.

SEED TRADE TOPICS.

Reports from Cleveland indicate that the seed business is opening up well there and gives promise of good trade this spring.

Peter S. Dooner, 10th and Chestnut streets, well known and popular among the seedsmen and florists of the country as the most unique and genial Boniface in America, has been seriously ill since the 26th inst.

J. D. Eisele, of Dreer's, is under the weather. We extend our sympathy and best wishes for a speedy recovery. One can't go to Europe without having a fine arrearage of work to catch up with on return. And burning midnight oil sometimes has had consequences.

The leaden atmosphere of Broad Street Station, Phila., was brightened on Monday by some of the bright lights of the American Seed Trade Association on their way to Washington. The party was joined in that city by Walter P. Stokes, William Henry Maule and W. Atlee Burpee. Bringing up the rear was that redoubtable reformer, Patrick O'Mara of New York. It is understood that the particular dragon requiring attention at present is Freeseeditis, and the seedsmen did well to provide themselves with such a formidable rear guard as "Nervy Patrick," as his Philadelphia admirers have been calling him lately.

CATALOGUES RECEIVED.

Peterson Nursery, Chicago, Ill. Shipping list for spring, 1906.

Charles Black, Hightstown, N. J. Wholesale nursery list for 1906.

Cherry Hill Nurseries, West Newbury, Mass.—Wholesale Catalogue for spring, 1906.

Thomas Meehan & Sons, Inc., Dreshertown, Pa. Wholesale trade list. A valuable pamphlet.

Blue Hills Nurseries, W. W. Hunt & Co., props., Hartford, Conn. Fruit and ornamental trees and hardy perennials galore. Finely illustrated.

They Are The Best

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Seeds and Bulbs

have stood the test with the Florist and Market Gardener. A trial will convince you. Catalogues on application. Wholesale list to the trade only.

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Write for 1906 Catalog

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KILLS SAN JOSE SCALE

Made by **HAMMOND'S SLUG SHOT WORKS,** Fishkill-on-Hudson, N. Y.
SOLD BY SEED DEALERS OF AMERICA

Dreer's Select Sweet Peas

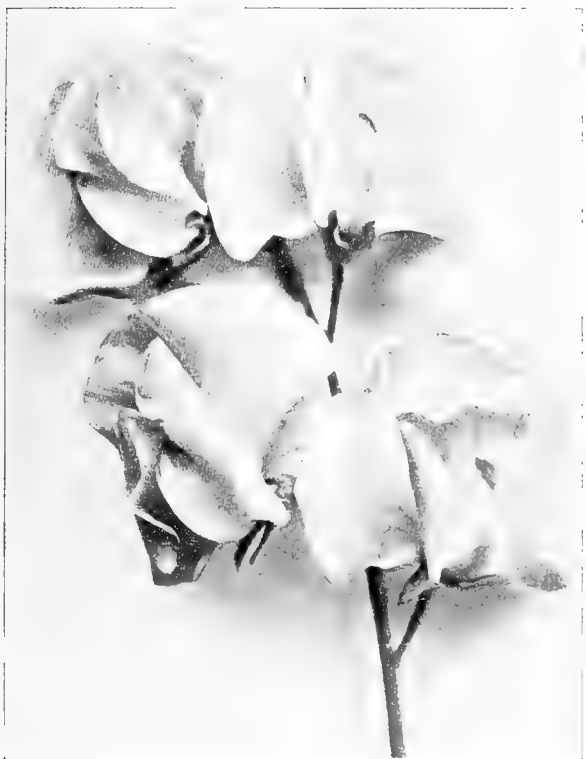
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SWEET PEAS

	¼ lb.	Lb.
Blanche Burpee , large white.....	\$0.10	\$0.25
Blanche Ferry , extra early; pink and white.....	.10	.25
Countess of Radnor , delicate lavender.....	.10	.25
Countess Spencer , new orchid-flowering, clear....		
pink shading darker at the edges.....	.30	1.00
Dorothy Eckford , the finest white.....	.15	.40
Earliest of All , re-selected. Same color as Blanche Ferry, but a week earlier than the extra early type	.10	.30
Emily Henderson , purest white, early and free ....	.10	.25
Gladys Unwin , new orchid-flowering, of very large size. A charming shade of pale rosy pink, extra fine.....	oz. 50c.	1.50
Hon. F. Bouverie , one of the best pinks.....	.10	.25
Hon. Mrs. E. Kenyon , the finest primrose yellow	.10	.25
Janet Scott , a large and bright pink.....	.15	.40
King Edward VII , rich deep crimson scarlet.....	.15	.50
Lady Grisell Hamilton , pale lavender.....	.10	.30
Lovely , shell pink, extra fine.....	.10	.25
Miss Willmott , rich deep orange pink.....	.10	.30
Mont Blanc , best early flowering white.....	.10	.30
Mrs. Walter Wright , deep mauve.....	.15	.50
Prima Denna , deep pink, fine.....	.10	.25
Prince of Wales , deep rose.....	.10	.25
Salopian , a grand deep scarlet.....	.10	.25

NOW IS THE TIME to sow Asters, Centaureas, Cobaea, Dracena, Lobelia, Petunia, Salvia, Stocks, Verbenas, etc., etc. Our strains of all florist flowers are unequalled for quality.



Sweet Pea Gladys Unwin

HENRY A. DREER, - - -

Philadelphia, Pa.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Wm. Schray & Sons, St. Louis, Mo., submit for registration *Canna Superior*: height, 3-4 feet; foliage, green; flowers, cherry red with light gold band.

Alternanthera aurea robusta, a sport from *aurea nana*; much stronger grower than the type, the leaves being 1-2 inch wider, more highly colored, and retaining color better than the type.

A. C. Zvolanek, Bound Brook, N. J., submits for registration winter-flowering sweet peas *Secretary William J. Stewart* (*Christmas Captain* x *Comtess Spencer*), color, light blue; *Mrs. W. W. Smalley* (*Enchantress* x *Mrs. E. Wild*), color, satin pink.

W. J. STEWART, Sec.

ELBERON (N. J.) HORTICULTURAL SOCIETY.

A meeting of the Elberon Horticultural Society was held on March 5, at which there was a large attendance. One was admitted to active membership. The subject for discussion was "Rose Culture Under Glass," and a very interesting and instructive paper was read by Mr. Henry Wood.

W. H. WAITE, Sec.

CLUB AND SOCIETY NOTES.

At the last meeting of the Gardeners' Club of Baltimore there was a large attendance. A. A. Fielder exhibited a bunch of *Lady Bountiful* car-

nations. D. T. Connor, representing Lord & Burnham Co., was present.

About 125 members of the Boston Market Gardeners' Association visited the farm of W. W. Rawson at Arlington, on Saturday afternoon, March 3. After an inspection of the place a collation was served and brief speeches were made by Prof. F. W. Rane, H. C. Hall and the genial host, on the various aspects of market gardening.

The meeting of the Horticultural Society of New York, on March 14th, will be held in the rooms of the American Institute, 19-21 West 44th street. The subject for the evening is *Useful and Economic Plants*. The general discussion will be opened by Mr. G. V. Nash, and will be illustrated by lantern slides and a collection of living plants.

A joint meeting of the Chicago Wholesale and Retail Florists' Associations was held at Handel hall on the afternoon of March 6, with an attendance of twenty-two. Mr. Bentley, of Bentley-Coatsworth Co., being duly elected temporary chairman, made a few pointed remarks, after which the meeting was thrown open for full debate. A lively discussion followed, participated in by the majority present, the question before them being the so-called "red violet." It was finally decided that the wholesalers would call a meeting and make some concessions to the retailers. A motion made by W. J. Smyth, seconded by C. A. Samuelson, to thank the wholesalers for their kindness was carried. The meeting adjourned at 6 p. m.

Advertisements for *Rose Number* should reach us by March 12.

PHILADELPHIA NOTES.

Julius Wolff has purchased the business of Mrs. Mahlon B. Young on Ridge avenue, and has installed his son there.

William H. Ferguson, of 12th and Spring Garden streets, is laid up with a broken leg, caused by a fall on the icy pavement of Ridge avenue on the 24th ult.

William Tricker, of water lily fame, has severed his connection with the Percival Roberts place and is at present on the waiting list. His long and varied experience in gardening, both commercial and private, insure his re-engagement soon. Good men of Mr. Tricker's stamp are scarce.

The glass men are laying low at present. It's the other fellow that's doing the chasing now. From all accounts a waiting game is justified, and the florist has to dangle the long green pretty temptingly to buy at present.

Jno. Lees, Bridge street, Frankford, is to make an addition to his greenhouses, commencing about April 1.

Joseph P. Schembs, of 629 North 15th street, has given up the branch store at 15th and Chestnut streets. Reason stated being trouble with the landlord. It was a paying stand, being right on the route of traffic to the P. R. R. station at Broad street.

A viewing party, consisting of W. Kleinheinz, John Kuhn, Fred Ehret, Ralph Schrigley, Rupert Kienle and George Falconer, visited the Strafford Carnation Farms of Edward A. Stroud on the 6th inst. They were much interested in the place and loud in their praises of the fine condition of the stock.

Grafted on Dickson

One of the most careful and experienced rose grafters in this vicinity has commissioned me to dispose of the following small surplus of young grafted roses:

	per 100	per 1000
3000 Maids	\$12.00	\$120.00
3000 Brides	12.00	120.00

Every plant guaranteed perfect and grafted on the genuine Dickson Manetti. I was after some of this party's stock last year but could not get a look in.

DON'T NEGLECT THIS OPPORTUNITY

If you are after \$90 kind this offer will not interest you. This is genuine Dickson and grafted by a master workman.

Also 4000 fine plants of

Chatenay

Own root; grown by John Burton and ready for delivery from now on; \$5.00 per 100; \$45.00 per 1000. These are better than Western stock and worth a great deal more. Chatenay is rapidly growing in favor as a profitable Summer Rose.

G. C. WATSON
1614 Ludlow St., Phila.

CRAFTED Bride and Maid

For March and April Delivery

This stock is grafted on Manetti purchased from Thos. Smith & Sons, Stranraer, Scotland. What is being sold is the same as we are using ourselves. I am not in any \$120 Trust, nor have I to hide behind anyone to sell the plants on commission. I pay commission to no one and therefore can sell at

\$10 per 100
\$90 per 1,000 | 2½ in. Pots
500 Own Root Carnots,
\$3.50 per 100

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Kaiserin Roses

Very fine grafted Kaiserin rose plants for immediate delivery, out of 2½ inch pots, ready to shift. Write for prices.

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CROMWELL, CONN.

ORNAMENTAL SCHOOL GROUNDS

Their Influence on the Pupil and Benefit to the Florist Trade.

The following is an abstract from a paper read before the Iowa State Horticultural Society by G. A. Heyne last summer. We have held it until the present time, in recognition of the many valuable suggestions it contains—valuable and timely now as spring is approaching, when they may be put in operation. Anything that can be done to interest the young generation in horticultural matters means just so much more business for the florist, nurseryman and seedsman:

The subject of ornamental school grounds is a very important one to the florist, when looked at from a business standpoint; but to start right it also must be instructive to the pupils. Every florist ought to take, at least, enough interest in the planting of school grounds to see that a good start is made; try and get teachers and janitor interested. The school grounds as usually found in most cities and towns will require some interest on the part of principal and teachers, and above all, it is very helpful to have the assistance of a janitor whose heart is in the work, one who takes pleasure in doing the work because he delights in things beautiful, and not because he is required to do it. Get the boys interested; let them help in grading the ground, trimming the trees and in the general cleaning, which is usually the first work required in the spring. Have a plan made for the season's work; go over the ground with the teachers, exchange ideas with them and give them encouragement, state what plants you can furnish them, plat the beds after a plan has been decided upon, lay out the walks (at this point the trees should be considered and planted as early as possible, if the work is done in spring, as it should be). Then sow grass seed, and plenty of it, as soon as tree planting is finished, and remember, the earlier you sow the stronger your grass will be by fall. You should also plan to have a few shrubs, and be sure to have a border for flowers. Sow annuals and perennials at the earliest time so as to have them well established before hot weather. If you can have some extra

flower beds place these so as to be visible from the schoolroom if possible, and be sure to use bright and cheerful colors. Let the little gardeners sow and take care of the border.

If there are trees growing on the ground that produce shade, try a rockery or fernery. I want to briefly describe one that was built by the janitor and myself on the grounds of the Audubon School, the one I attended as a boy 35 years ago. It started with the janitor having trouble to make the grass grow in a shady place, so he secured a few loads of weather-beaten stones and was about to build a fernery when I happened to pass and hinted that it would be a pity to hide the beautiful stones in piles of leaf mold, so we planned together to use them to some advantage, and after making a hurried survey of the quantity of stones, we decided to build a basin and waterfall, or rockery and fountain. With the approval of the board of education, who were kind enough to allow a small sum needed for sand and cement, we constructed this on the surface, so had no excavation to make. We placed a layer of concrete four inches thick in an oval form, then built up with the heaviest stones a wall about the edge, following with smaller stones upward, building at each end an extension to a height of four feet. On the one at the east end of the basin we constructed a series of ledges for waterfall to a height of eight feet. While doing this we arranged a small water pipe running nearly to the top; also placing a large pipe for overflow a little below top of basin, which was built up inside with concrete from the bottom about four inches thick, tapering at the top to two inches in thickness. The depth of the basin, inside, was twenty-two inches. The west end extension is of roundish form, about three feet in diameter, and was filled with good soil and planted with different plants and vines.

The basin is filled with rich soil to a depth of five inches and kept full of water. As the water is used for flushing there is consequently no waste. There were several water lilies, sagittarias, cabtails and other aquatic

Grafted Roses

All our grafted Roses are from flowering wood grafted on Dickson's Irish disbudded Manetti stocks, and are now in exceptionally fine shape.

Killarney, \$15 per 100; \$150 per 1,000. Bride, Bridesmaid, Kaiserin, \$12 per 100; \$120 per 1,000. To prevent disappointment order now as stock is limited. Own Root Richmond Roses, \$12 per 100. Killarney, \$10 per 100.

ROBERT SCOTT & SON, Sharon Hill, Del. Co., Pa.

PANSIES

Over one million plants ready from our Famous Strain. None better. \$1.50 per 500. \$2.50 per 1000.
Daisies (Bellis) fine plants, \$2.00 per 1000.
Forget-me-not, Hardy blue, \$3.00 per 1000.
Geraniums out of 2 1-2 inch pots, best varieties, \$1.50 per 100. 50,000 ready now.

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plants in the basin. The ledges on the waterfall were covered with water cress and other plants. All the outside crevices of the basin and both extensions, or rockeries, also the waterfall, were planted with different plants and vines, ferns and masses, according to position. There is also a bed running nearly around outside the basin of different soils in which a variety of plants will be used for experiment each season.

That all this had a great influence on the children will not be questioned. Suffice it to say that in teaching nature study and geography it was a great help. The children took great delight, when tired of play, in looking at the various plants and flowers that grow in the water, on the rocks and in the soil. They enjoyed seeing the fish swim back and forth in the pond and watch them catch the insects that happened to alight on the surface of the water. They learned something of the relation of water, rock, soil, light and shade to each other and the various vines, shrubs and flowers.

Another good result is that the pupils learn to appreciate the beautiful; they will assist in keeping everything in good order. The influence of having beautiful flowers, vines and shrubs is carried into the homes and will assist in promoting civic pride. The individual who takes pride in his school and school grounds will take pride in having a beautiful home and neighborhood, and the love of country is inseparably connected with a love of home. Whatever, therefore, leads a boy to assemble the comforts and elegancies of life around his habitation tends to increase local attachment and render domestic life more delightful, thus not only augmenting his own enjoyment, but strengthening his patriotism and making him a better citizen.

Now let us look up the benefit to the florist for taking an interest and part in the planting of school grounds. If you love and admire a nice home garden and propose letting others enjoy the same with you, you have only to start out planting one and you will be rewarded with a brisk demand for all things that show better than they have been seen before. Set out a few interesting plants and you will find the school children know you have some more for sale and, by the way, they will want some flowers during the long winter months and, of course, they go to the man that helps plant the school grounds. The teachers are a class of customers that should be given a chance for your surplus flowers where drawing is taught; they will return the favor when Christmas or Easter is at hand.

HORTICULTURE needs a wide-awake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

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High Grade Cut Blooms

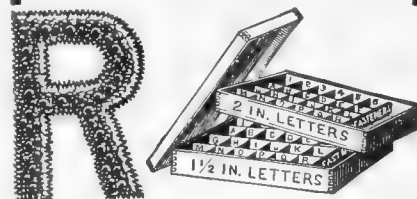
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Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

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51 Wabash Av., Chicago, Ill.

In writing advertisers, mention Horticulture

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Wholesale

Cut Flowers

"THE OLD RELIABLE"

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CUT FLOWER

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Store Closes 8 P. M.

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		ST. LOUIS		PHILA.		BOSTON	
	Feb. 27		Mar. h 5		March 7		March 8	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	40.00	to 45.00	25.00	to 35.00	60.00	to 75.00	.....	to 50.00
" Extra.....	12.00	to 36.00	15.00	to 20.00	50.00	to 60.00	30.00	to 40.00
" No. 1.....	16.00	to 24.00	10.00	to 12.50	15.00	to 25.00	15.00	to 25.00
" Lower grades.....	6.00	to 12.00	4.00	to 8.00	8.00	to 12.50	3.00	to 8.00
Bride & 'Maid—Fan. & Sp.....	8.00	to 10.00	.....	to 8.00	.....	to 15.00	6.00	to 8.00
" Extra.....	6.00	to 8.00	5.00	to 6.00	10.00	to 12.00	6.00	to 8.00
" No. 1 and Lower gr.....	4.00	to 5.00	.....	to 8.00	8.00	to 10.00	3.00	to 5.00
Liberty, Fancy.....	10.00	to 15.00	.....	to 20.00	20.00	to 30.00	12.00	to 25.00
" Ordinary.....	6.00	to 8.00	.....	to 8.00	8.00	to 12.00	4.00	to 8.00
Richmond, Fancy.....	10.00	to 15.00	.....	to 8.00	20.00	to 25.00	20.00	to 30.00
" Ordinary.....	6.00	to 8.00	4.00	to 6.00	12.00	to 15.00	8.00	to 12.00
Golden Gate, Fancy.....	8.00	to 10.00	6.00	to 8.00	10.00	to 12.00	6.00	to 8.00
" Ordinary.....	5.00	to 6.00	4.00	to 5.00	6.00	to 8.00	2.00	to 4.00
Chatenay, Fancy.....	8.00	to 10.00	.....	to 8.00	12.00	to 15.00	6.00	to 8.00
" Ordinary.....	4.00	to 6.00	4.00	to 6.00	6.00	to 8.00	3.00	to 5.00
CARNATIONS								
Fancy.....	2.50	to 3.00	2.50	to 3.00	3.00	to 6.00	2.00	to 3.00
Ordinary.....	1.00	to 2.00	1.00	to 2.00	2.00	to 3.00	1.00	to 2.00
MISCELLANEOUS								
Cattleyas.....	45.00	to .....	.....	to .....	.....	to	50.00	to 75.00
Lilies.....	12.50	to 15.00	10.00	to 12.50	12.50	to 15.00	8.00	to 12.00
Callas.....	12.00	to 15.00	10.00	to 12.50	10.00	to 12.50	8.00	to 12.00
Lily of the Valley.....	2.00	to 4.00	2.00	to 3.00	2.00	to 4.00	2.00	to 4.00
Violets.....	.50	to 1.00	.25	to .35	.50	to .75	.20	to .50
Tulips.....	2.00	to 5.00	3.00	to 5.00	3.00	to 4.00	1.00	to 2.00
Roman Hy., Paper White, Nar.....	2.00	to 3.00	1.50	to 3.00	3.00	to 4.00	1.00	to 2.00
Daffodils: Trumpets.....	2.00	to 4.00	1.00	to 2.00	2.00	to 3.00	.75	to 1.50
Freesia.....	2.00	to 4.00	2.00	to 3.00	2.00	to 3.00	.75	to 1.00
Mignonette.....	6.00	to 10.00	4.00	to 6.00	3.00	to 4.00	.....	to 2.00
Adiantum Cuneatum.....	.50	to 1.00	.....	to 1.00	.....	to 1.00	.75	to 1.50
" Croweanum.....	1.00	to 1.50	.....	to .....	.....	to 1.00	.....	to 1.50
Smilax.....	10.00	to 15.00	12.50	to 15.00	15.00	to 20.00	12.00	to 16.00
Asparagus Plumosus, strings.....	25.00	to 50.00	25.00	to 50.00	50.00	to 75.00	.....	to 50.00
" " & Sprengeri bunches	20.00	to 40.00	25.00	to 50.00	50.00	to 75.00	20.00	to 50.00
Lilacs per 100 bunches ..	75.00	to 100.00	50.00	to 75.00	35.00	to 50.00	.....	to

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and
Carnations
A Specialty.....

WHOLESALE
GROWER of

CUT FLOWERS

VICTORY

We do not need to advertise Victory aggressively any longer. We are making prompt deliveries of Cuttings daily and are giving universal satisfaction. ENOUGH SAID!

CUT FLOWER MARKET REPORTS.

Since the Lenten season **BOSTON** set in it is a case of history repeating itself, as far as the flower market is concerned. The weather conditions have been exceptionally favorable, however, keeping the demand well within the supply. Roses have been fully up to the standard, the new crop of Beauties and Edgely showing up remarkably well. Violets as well as bulbous stock are very plentiful, and the quality remains good. Carnations also held fairly well, and the demand is exceptionally good.

A sharp expansion in receipts occasioned by mild weather marked the cut flower trade the past week. **ASH** Wednesday put its extinguisher on social gaiety and prices on all lines were at a decline. They had been holding wonderfully well particularly for Beauties, teas, carnations, etc. Brides, Bridesmaid and Richmond were very fine and gilt edge stock brought high figures. Killarney and Chateau also of good quality, brought good prices. A good supply of carnations was had the previous week, the select stock moving fairly well while ordinary seemed to block up considerably. On Saturday an over-supply was had; the abundance of rain from early morn to closing time caused a good quantity to be carried over together with tulips, daffodils and other bulbous stock. The latter could be had at one-third of last week's prices. The mantle of Lenten dullness has spread itself over this market to an extent, and were it not for the fact that floral work was in evidence, it would puzzle some to find a place for the surplus.

The gentle calm which came over the local trade this week is an evidence that the Lenten season is gradually asserting itself; but the shipping orders came to the rescue and helped to balance the business. Carnations are plentiful, as is also bulbous stock. Rose stock continues scarce. A few good short Beauties made their appearance and were picked up very quickly. The violet supply is good and they sell well. Sweet peas came in with good color and were in demand for funeral work. Ferns, leucothoe, galax, smilax and asparagus are plentiful and have a very good color. Popular prices prevail, except among roses, where fancy stock runs a little higher.

The market is active and firm, stock in demand and supply equal to it; prices about the same

as last week. All flowers show improvement in color and quality and many potted plants are beginning to make their appearance.

DETROIT Business was not so flush the past week, this being about the first retard since the holidays. Easter is not so very far off, and with its large quantity of business will live things up again. Although we hope for many good days before Easter, we must look for slow ones while Lent prevails. At the commission houses stock is coming in more plentifully and reductions are generally looked for. Carnations and sweet peas are abundant, and there need be no worry about their shortage for a time at least. Hyacinths are used in large numbers. In honor of the new postmaster taking his seat, many fine roses were sold, among them Beauties, Bridesmaids and La Detroit.

LOUISVILLE Business conditions last week were unusually good. The supply of carnations and roses of good quality was equal to the demand. Violets and lily of the valley were there with the goods and were readily disposed of. Forget-me-nots, mignonette, jonquils, hyacinths and other seasonable stock were in good supply and the quality was generally satisfactory.

NEW YORK The past week has shown a marked falling off in the volume of business, with receding prices on stock of all kinds, with the exception of the best grades of American Beauties, which are still in limited supply. The quality of roses in general is good, and while the cut is not heavy, the lessening demand makes them appear plentiful. Carnations do not move readily even at the lower prices which now prevail. Bulbous stock of all kind is cheap. Violets have been in the black books for the past ten days, and when sold in thousand lots bring small figures. Asparagus, smilax and adiantum about even up with the demand. The market is fully supplied with lilies, lilac, freesias and sweet peas.

PHILADELPHIA Ash Wednesday had an appreciable effect on last week's market. From that date on, the tone was dull and draggy, and stocks accumulated fast. There was more stock displayed on the streets on Saturday than at any time this season. Beauties are still scarce. Brides and Bridesmaids good and plentiful, with demand best on the lower grades. Carnations are too plentiful, but of fine quality. Violets are moving well, but prices low. Lily of the valley a little off as to quality. Lent certainly has its effect, but people will be forgetting about it long before the 40 days are up. The store men are using the lull to look around among the growers and spot the best Easter stock.

CALIFORNIA NOTES.

The prevailing weather during the past week was warm and cloudy, with frequent showers in all sections. Peaches, apricots, plums and other varieties of deciduous fruits, and strawberries, are in bloom, and the outlook is good for average crops. The hills and valleys are thickly covered with new growth, and green feed is plentiful, and California's wealth of cattle are in fair condition and improving.

On the evening of the 27th of February the Pacific Coast Horticultural Society gave San Franciscans an exceptionally fine entertainment and dance in the Mission Opera House. The object was to raise funds for defraying the expenses of the floral exhibits which the society gives from time to time. The decoration committee, consisting of growers H. Plath, Frank Pelicano and Charles Abraham, were given a vote of thanks for placing the stock, contributed by the prominent growers, in beautiful array. Great crowds of people attended with their dollar tickets.

BUSINESS CHANGES.

James W. Whitney has accepted a position as manager of the Yues Garden Co., Newburgh, N. Y.

Advertisements for Rose Number should reach us by March 12.

WHITE PINE

ALL SIZES. SEND FOR PRICES AND CATALOGUE

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Jamaica Plain, Mass.

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Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, NEW YORK
Tel. 299 Madison Sq. Open 6 A. M. to 5 P. M.

FORD BROTHERS
48 West 28th Street, NEW YORK
FINE ROSES FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS
Telephone, 3870 or 3871 Madison Square.

ALEX. J. GUTTMAN
THE WHOLESALE
FLORIST
OF NEW YORK
Phone 1664-1665 Mad. Sq. 43 W. 28th St.

WE HAVE A GOOD OPENING
for a grower of lily of the valley and general bulbous stock. Would like to communicate with growers of good bulbous flowers. Can handle them at good prices. Also asparagus plumosus. Let us hear from you.

A. L. YOUNG & CO.
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A. MOLTZ
Wholesale Florist
55-57 W. 26th Street - - NEW YORK
Best Facilities for Supplying you at Lowest
Daily Market Prices
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A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
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THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
BEST BEAUTIES, METEORS, BRIDES AND BRIDESMAIDS
JAMES McMANUS, Telephone 759 Mad. Sq. 50 W. 30th St., New York

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The Reliable Commission House
Richmond Roses and Rich Flowers
of all varieties
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FOR GOOD PRICES
AND CASH RETURNS
send your flowers to
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Telephone 2921 Madison Square.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Mar. 3 1906	First Half of Week beginning Mar. 5 1906		Last Half of Week ending Mar. 3 1906	First Half of Week beginning Mar. 5 1906
Roses			Carnations, Ordinary	1.50 to 2.00	1.00 to 2.00
Am. Beauty and Edgeley fan and sp.	50.00 to 75.00	50.00 to 75.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
" extra	30.00 to 40.00	30.00 to 40.00	Lilies	8.00 to 12.00	8.00 to 10.00
" No. 1	20.00 to 30.00	20.00 to 25.00	Callas	..... to 8.00	..... to 8.00
" Lower grades	3.00 to 12.00	3.00 to 10.00	Lily of the Valley	1.00 to 3.00	1.00 to 4.00
Bride & 'Maid, fan and sp.	8.00 to 12.00	8.00 to 10.00	Violets	.25 to .60	.25 to .50
" extra	6.00 to 8.00	6.00 to 8.00	Tulips	1.50 to 4.00	1.50 to 4.00
" No. 1 and lower grades	3.00 to 5.00	2.00 to 5.00	Roman Hyac. Paper White Nar.	1.00 to 2.00	1.00 to 2.00
Liberty, fancy	20.00 to 30.00	20.00 to 30.00	Daffodils, Trumpets	1.00 to 2.00	1.00 to 2.00
" ordinary	3.00 to 10.00	3.00 to 10.00	Freesia	.50 to 1.50	1.00 to 2.00
Richmond, fancy	20.00 to 30.00	20.00 to 30.00	Nigronette	2.00 to 8.00	2.00 to 6.00
" ordinary	3.00 to 10.00	3.00 to 10.00	Adiantum	.75 to 1.25	.75 to 1.25
Golden Gate, fancy	8.00 to 10.00	8.00 to 10.00	Cuneatum	..... to 1.50	..... to 1.50
" ordinary	3.00 to 6.00	3.00 to 6.00	Smilax	6.00 to 20.00	6.00 to 20.00
Chatenay, fancy	8.00 to 10.00	8.00 to 10.00	Asparagus Plumosus	25.00 to 35.00	25.00 to 35.00
" ordinary	..... to 6.00	..... to 6.00	" & Sprenger, bunches	20.00 to 25.00	20.00 to 25.00
Carnations, Fancy	2.00 to 4.00	2.00 to 4.00	Lilacs per 100 bunches	35.00 to 75.00	35.00 to 75.00

JOHN YOUNG
Wholesale **FLORIST**
51 West 28th St., New York
Telephone, 4463-4464 Madison Sq.
Best Beauties, Brides and Bridesmaids.
Lily of the Valley, Orchids and
Lilies. Renowned Cottage
Garden Carnations.

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Tel. 1462 Madison Sq. New York

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WHOLESALE FLORISTS
Furnish best stock at fair prices all the year round Send for quotations on fall orders
Tel. 798-799 Madison Sq. 44 West 28th Street, New York City

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Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in PLAIN BOXES, WITH OWN TAGS in best manner by
Young & Nugent
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In writing to Advertisers kindly mention Horticulture



Fancy Ferns

Wholesale Florists
30 and 40 Miami Ave., DETROIT, MICH.

Michigan Cut Flower Exchange

WM. DILGER
Manager

\$1.75 per 1000
\$1.50 per 5000
Discount on Regular Shipments

Charles Millang

50 West 29th St., New York City

Cut Flowers on Commission
A Reliable Place to Consign to or order from
Telephone: 3860-3871 Madison Square

ORCHIDS AT ALL SEASONS

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Commission Merchants in Cut Flowers
53 WEST 28TH STREET, NEW YORK
Telephone 356 Madison Square

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FLORISTS' SUPPLIES
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Long Distance Phone 1435 Court.

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Wholesale Florists
55 and 57 W. 26th St., NEW YORK
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OPEN 6.00 A.M.
AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

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Carnations and Violets. Quick returns and
highest prices.

Established 1891 BUY FROM
SHIP TO ME
TRY

ALFRED H. LANGJAHR
All Choice Cut Flowers in Season
55 West 28th St., New York
Telephone 3924 Madison Square.

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Pittsburg Cut Flower Co., Ltd.
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If you want to do business with rose
growers or rose dealers, advertise in
our Rose Number next week. Send
copy at once.

Crafted Roses

First class, early grafted, Brides
and Bridesmaids on best Eng-
lish stock. Prices \$10.00 and
\$12.00 per hundred. See sam-
ple at Stall No. 52 Park Street
Market.

MONTROSE GREENHOUSES
Montrose, Mass.

Headquarters in Western New York

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.
383-87 ELLICOTT ST.
BUFFALO, N. Y.
Give us a trial. We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

NEW CROP SOUTHERN WILD SMILAX \$3.50 and \$7.00 per Case.

Headquarters for all FLORISTS' SUPPLIES. Wire
Designs, Cut Wire, Letters, Immortelles, Cypas Leaves,
Wheat Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main, 2018.

WHOLESALE FLOWER MARKETS. — PER 100. — TO DEALERS ONLY.

	CINCINNATI March 5	DETROIT March 5	BUFFALO March 6	PITTSBURG March 5
ROSES				
Am. Beauty and E. gely. fan and sp.	3.00 to 4.00	5.00 to 6.00	4.00 to 5.00	5.00 to 6.00
extra	3.00 to 4.00	5.00 to 6.00	4.00 to 5.00	5.00 to 6.00
No. 1	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Lower grades	5.00 to 6.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Bride and Maid, fan and sp.	3.00 to 4.00	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00
extra	3.00 to 4.00	7.00 to 8.00	5.00 to 6.00	10.00 to 15.00
No. 1 and Lower gr	3.00 to 4.00	4.00 to 5.00	5.00 to 6.00	6.00 to 8.00
Liberty, fancy	4.00 to 5.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Ordinary	4.00 to 5.00	5.00 to 6.00	4.00 to 5.00	5.00 to 6.00
Richmond, Fan	6.00 to 7.00	10.00 to 12.00	10.00 to 12.00	15.00 to 20.00
Ordinary	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00
Golden Gate, Fan	6.00 to 7.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Ordinary	3.00 to 4.00	5.00 to 6.00	5.00 to 6.00	4.00 to 5.00
Chatenay, Fan	5.00 to 6.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Ordinary	5.00 to 6.00	4.00 to 5.00	5.00 to 6.00	4.00 to 5.00
CARNATIONS				
Fancy	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00
Ordinary	1.00 to 2.00	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00
MISCELLANEOUS				
Cattleyas	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Lilies	12.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Calas	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00
Violets	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00
Tulips	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Roman Hya. Paper White Nar.	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Danodis, Trumpets	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Freestanding	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Mignonette	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Adiantum Cincin. am.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Crowanium	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Smilax	12.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Asparagus Plumosus, strings	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00
" & Sprenger, umbels	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00
Linac per 100 buds	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters
34 HAWLEY STREET - BOSTON

E. A. BEAVEN

Wholesale Dealer in

SOUTHERN WILD SMILAX

and Florists' Hardy Decorative Supplies
New crop now ready in limited quantities
EVERGREEN, ALA.

WHOLESALE

Fancy and Dagger Ferns, Galax and Leucothoe,
and Green Baled Sphagnum, and Green
Tosses Leaf Mold. Orchid and Acanthaceae, and
Mignonette and Cypas Palm leaves. Wild Smilax
Boxwood. All Decorating Evergreens.

THE KERVAN CO.

1119 Madison Sq.

20 West 27th St.

NEW YORK.

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ASPARAGUS P. NANUS.

S. S. Pennock, Philadelphia.

ASPARAGUS ROOTS.

40,000 Barr. Mammoth 4 year-old roots, suitable for forcing at \$6 per 1000 or 5000 for \$25.00. Can ship at once.

Write quick. Ground must be cleared.

W. F. Allen, Salisbury, Md.

BEGONIAS.

Stumpp & Walter Co., New York.
Gold Medal Strain Begonias.

Innes & McKee, Cheswick, Pa.
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CHRYSANTHEMUM STOCK PLANTS.

C. H. Totty, Madison, N. J.

Chrysanthemum cuttings. Monrovia, Glory of Pacific, Polly Rose, Robinson, Philadelphia, White Bonnafton, Fitzwygram, G. S. Kalb, Robt. Halliday, John Shrimpton, May Bonnafton, Col. Appleton, Niveus, Bride, White Ivory, Cullingford, Arline, Maud Dean, Mutual Friend, W. Lincoln, Jerome Jones, J. G. Jones, Timothy Eaton and Mme. Perrin at \$1.50 per 100; \$12.50 per 1000.

Opah, Princess, E. Bonnefond, Alliance, Fred Lemon, Mrs. Brice, La Tusson, Mersham Yellow, Mildred Ware, Wm. Duckham, Amorita, Dr. Enguehard, Mrs. T. W. Pickett, Nellie Pickett, Ben Wells, F. S. Vallis, Mrs. Thirkell at \$2.50 per 100; \$20.00 per 1000.
W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

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S. S. Pennock, Philadelphia.
Dahlia Roots.

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250 Named Varieties,—Cactus, Show, Fancy, Decorative, Single, Pompon, Collette, etc., containing all the latest Foreign and American introductions. List on application.

Palisades Nurseries, Sparkill, N. Y.

DAHLIA ROOTS.

Field grown, mixed varieties, whole roots \$4.00 per hundred.
W. F. Allen, Salisbury, Md.

DAISIES.

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FANCY ROCKY FORD

Cantaloupe seed, wholesale per 100 lbs. \$20.00.

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Ferns for jardineres, good varieties, \$3.00 per 100, cash. J. H. Fiesser, 415 Summit Avenue, West Hoboken, N. J.

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English Pot and Basket Grown,

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GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for
Florists.
Mineralized Rubber Co., New York.

HARDY ENGLISH IVY.

Field grown, strong roots, vines 2 to 3
feet. \$4.00 per 100; \$35.00 per 1000.
Palisades Nurseries, Sparkill, N. Y.

HARDY FERNS AND SUPPLIES.

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HARDY PERENNIALS.

Complete list of Field and Pot-grown
Plants.
Palisades Nurseries, Sparkill, N. Y.

HARDY PHLOX.

100 Named Varieties.
Palisades Nurseries, Sparkill, N. Y.

HARDY PRIMULAS.

Sieboldii (Cortusoides), 12 Named Vari-
eties.—Elatior (Polyanthus Primrose), Vul-
garis (English Primrose), Veris Superba
(Giant Cowslip). 2 1-2 inch pots. Doz.,
85c.; 100, \$6.00.
Palisades Nurseries, Sparkill, N. Y.

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PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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Igoe Bros., 226 North 9th St.,
Brooklyn, N. Y.
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TRITOMAS (Red Hot Poker).

Collection of New Sorts in 2 1-2 inch
pots. All will flower this year. Tucki,
Rufus, May Queen, R. C. Affourtit, Nobilis,
\$1.25 per doz.; \$10.00 per 100. Corallina,
Pätzler, Uvaria Grandiflora, 2 1-2 inch pots,
doz., 75c.; 100, \$5.00.
Pallades Nurseries, Sparkill, N. Y.

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New York.
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HEATING! HEATING! HEATING!

200,000 SQUARE FEET OF GLASS IN 1905.

PRETTY FAIR, NOT CONNECTED WITH ANY COMBINATION OR TRUST.

READ THE FOLLOWING FROM MR. J. D. COCKROFT,
NORTHPORT, LONG ISLAND, N. Y.

MR. WM. LUTTON,

DEAR SIR:—I wish to express my entire satisfaction of the heating plant that you installed, in my three (3) carnation houses, 33 x 175, we have not the slightest difficulty in maintaining the temperature, and I am particularly pleased with the boiler.

Yours very truly,

J. D. COCKROFT.

SOME PRIVATE WORK ALSO.

MR. WM. H. LUTTON,

DEAR SIR:—I am very well pleased with the heating of our palm house, your work has been done in a satisfactory and workmanlike manner, true to the letter of your contract, which means first-class work, you have the liberty to use my name and can refer anyone to me, and I shall give you the credit that you are justly entitled to.

Yours Respectfully,

JOHN SHORE, Supt. Wm. H. Macy Estate, Harrison, N. Y.

Original copies of the above letters with many others on file at my office and will be furnished on application.

WILL FURNISH YOU SEPARATE ESTIMATES ON YOUR HEATING AND BUILDING.

WILLIAM H. LUTTON, West Side Ave. Station, C. R.R. of N. J., Jersey City, N. J.

WANTS.

Position Wanted

The undersigned is open to engage with lady or gentleman requiring the services of a thoroughly experienced and competent gardener capable of taking charge of a first-class private place. European and American experience in commercial gardening, public parks and nurseries, and would consider propositions in that connection. Best of references as to character and ability. Address:

William Tricker, 585 Pine St., Camden, N. J.

SITUATION WANTED—By an all-around greenhouse man, middle age, American, Protestant, strictly temperate, trustworthy, honest, willing to work. A good home more desirable than high wages. Address P. O. Box 232, Fitchburg, Mass.

WANTED—A first-class Fern Grower, one who has had experience. Good wages, steady position. Send references. R. H. N., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—To lease or buy, a place with 15,000 or 20,000 ft. of glass, in good location, vicinity of Boston, suitable for raising roses and carnations. R. D., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—For a large private place, a first-class man as inside Foreman. Must have European experience in some of the best places. Apply, with copies of testimonials, to H. W., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—By April 1st for our new house, young man with fair knowledge of rose growing. Good opportunities for the right man. Give references and state wages required in first letter to Montrose Greenhouses, Montrose, Mass.

WANTED—First-class man to take charge of a city flower store in fashionable district. One capable of making fine table decorations and waiting on critical customers. Salary \$20 per week to right man. T. W., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—Manager in a plant-shipping department of a large commercial establishment. None need apply unless experienced in overseeing men, handling palms, bedding plants, etc. Married man preferred. State wages wanted. Also a position for an assistant. L. Company, care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED BY APRIL 1ST—A FOREMAN on a large commercial place. A position is offered to an honest, sober, intelligent man. One who is familiar with Greenhouse and Outside plants, who is able to handle men to good advantage. To such a man is offered a permanent position with good salary. Give full particulars in first letter. Address Plants, care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—Man to take care of conservatory; one who has knowledge of spring planting and knows how to do trimming. Address Spring, care HORTICULTURE, 11 Hamilton Place, Boston.

THE PERFECTION OF GREENHOUSE BUILDING.

The announcement in our advertising columns of the establishment of a company for the erection of greenhouses and conservatories under the "U-Bar" patents will, no doubt, find many interested readers.

For utility and beauty this construction is unquestionably the highest attainment in greenhouse and conservatory building. The Messrs. Pierson and de Forest begin business with a splendid factory equipment, with a wide field of operators and with the personal confidence and esteem of the gardening profession.

A high art catalogue is in course of preparation and every reader of HORTICULTURE should make early application for a copy.

GREENHOUSES BUILDING AND PROJECTED.

Bridgeport, Pa.—August Swartz, one house.

Stratford, Ct.—C. D. Mills, one house.

Rochester, N. H.—Ernest Chalmers, one house.

Lisbon Falls, Me.—H. W. Blethen, one house.

Southboro, Mass.—T. J. Brennan, one house.

West Falmouth, Me.—H. T. Meloon, one house.

Elizabeth, N. J.—Elizabeth Nursery Co., four houses, 35x200.

Baltimore, Md.—St. Mary's Industrial School, six houses, 22x100 each.

LIST OF PATENTS.

Issued February 27, 1906.

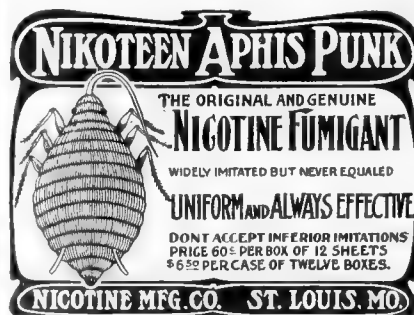
813,495. Method of Separating Buckhorn and Plantain Seed From Clover and Alfalfa Seed. Samuel P. Glunt, Union City, Ind.

813,539. Lawn Edger. Gaius Vincent, Minneapolis, Minn., assignor of one-half to Henry Woollett, Minneapolis, Minn.

813,696. Stump Puller. John K. Flynn, Duluth, Minn.

813,717. Plant Excavator. Rudolph D. Kline, Streator, Ill.

Reissue 12,459. Fruit Grader. William C. Anderson, San Jose, Cal., assignor, by mesne assignments, to Anderson-Barngrover Mfg. Co., San Jose, Cal., a Corporation of California.



Carman's Antipest

INSECTICIDE AND FUNGICIDE

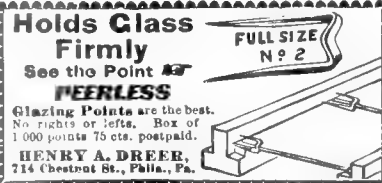
For the Garden, Orchard and Greenhouse. Nonpoisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down mildew. \$1.50 per gallon. Also in quarts, half gallons and in bulk. Send for circulars.

PERFECTION CHEMICAL CO.,
Flushing, N. Y.

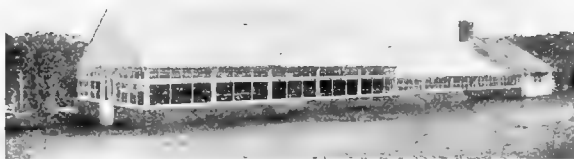
If you want to do business with rose growers or rose dealers, advertise in our Rose Number next week. Send copy at once.



FOR SALE.

Greenhouse and vegetable business, carried on for ten years. About 5000 feet of glass, two new houses, two old; new dwelling house and barn; 30 acres of land. Walter Slade, Box 394, Franklin, Mass.

FOR SALE—Two greenhouses, 23x95, 23x65, with hot water heating apparatus moved stocked with Carnations and Violets. Will sell as it is with dwelling house attached and 17,000 feet of land, or take cash down and removed. Address: 709 South St., Waban, Mass.



ANNOUNCEMENT

BY
HITCHINGS & CO.

WE are pleased to inform our friends and patrons that we have resumed business under our old and well-known firm name of Hitchings & Co., with sales offices at 1170 Broadway, N. Y. City. General offices and Works at West Side Ave., Jersey City. Foundries and Boiler Shops at Garfield Ave. and Union Street, Jersey City, N. J.

The Officers of the Company are E. W. Hitchings, President; Charles Armitage, Secretary and Treasurer; William Sefton, Sup't of Works.

In addition to Hitchings & Co.'s former manufacturing plant, we have acquired the Pierson-Sefton Co.'s new factories, and their entire working force, consequently we are in a position to largely increase our production.

We trust our friends will favor us with the same liberal patronage and confidence we have enjoyed for so many years.

USEFUL BOOKS.

MANUAL OF THE TREES OF NORTH AMERICA (Sargent); 826 pages, 644 illustrations; \$6.00.

THE HORTICULTURISTS' RULE-BOOK (Bailey); 312 pages; illustrated; 75 cents.

THE AMERICAN CARNATION (C. W. Ward); illustrated; \$3.50.

THE DAHLIA (Peacock); revised edition; 30 cents.

CHRYSANTHEMUM MANUAL (Smith); 120 pages; illustrated; 40 cents; revised edition ready April 1.

THE CHRYSANTHEMUM (Herrington); 50 cents.

HOW TO MAKE MONEY GROWING VIOLETS (Saltford); 25 cents.

THE FIRST COUNTY PARK SYSTEM (Kelsey); 300 pages; illustrated; \$1.25.

A MANUAL ON THE PROPAGATION AND CULTIVATION OF THE PAEONY (Harrison); illustrated; 30 cents.

— ORDER FROM —

HORTICULTURE PUBLISHING CO., 11 Hamilton Pl., Boston.

If you want to do business with rose growers or rose dealers, advertise in our Rose Number next week. Send copy at once.

POT MAKERS FOR 140 YEARS
A. H. HEWS & Co. Inc. CAMBRIDGE, MASS.
FLORIST WARE OF EVERY KIND

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in.	pots in crate \$4.88	120 7 in.	pots in crate \$4.20
1500 2 1/2 "	" " 5.25	60 8 "	" " 3.00
1500 3 "	" " 6.00	HAND MADE	
1000 3 "	" " 5.00	48 9 in.	pots in crate \$3.60
800 3 1/2 "	" " 5.80	48 10 "	" " 4.80
500 4 "	" " 4.50	24 11 "	" " 3.60
320 5 "	" " 4.51	24 12 "	" " 4.80
144 6 "	" " .16	12 14 "	" " 4.80
		6 16 "	" " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE 111 FIFTH AVE

74 FRANKLIN ST. BOSTON

Standard
Flower ..

POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money

W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathings, Flooring, White Cedar Posts, Etc.

We are in a Special "PECKY CYPRESS" Position to Furnish

Everything in PINE and HEMLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

FINE SILVER CUPS and TROPHIES

For Exhibition Awards, Sporting Events, etc.

FINEST ASSORTMENT IN THE COUNTRY
FROM THE BEST MANUFACTURERS AND
AT LOWEST PRICES.

THORNTON BROS.,
LAWRENCE, MASS.

GREENHOUSE MATERIAL

If you contemplate erecting a greenhouse it will cost you nothing to discuss the construction of it with us.

You may not entertain our ideas in the matter and in that case we lose your order.

Florists using our material have made money--had perfect houses.

We will be glad to help you--write us about it.

JOHN C. MONINGER CO.—Chicago

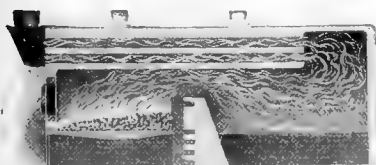
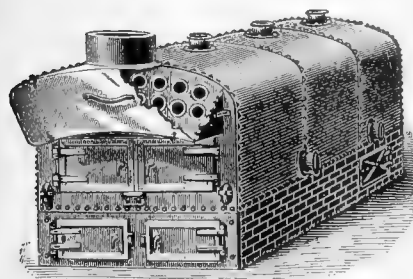
117 E. BLACKHAWK STREET

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

35 Erie Street, CHICAGO.



Boilers made of the best material shell, firebox sheets and heads of steel water space all around front, sides and back. Write for information

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

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Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty five years' active practice. **SPECIALTY** "Working on the Failures of Others."

SIGGERS & SIGGERS

PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

Greenhouse Material

Ask for our Special Catalogue No. 554 describing Boiler Tubes, Boilers, Tubes, Lumber and Supplies of every kind from the Fifty Mill on Dollar St. Louis World's Fair.

CHICAGO HOUSE WRECKING CO.
35th and Iron Sts. CHICAGO

SEND FOR CATALOGUE OF
SCOLLAY HOT WATER
and STEAM BOILERS

JOHN A. SCOLLAY
73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

N. TONAWANDA,
N. Y.

TORONTO,
ONT.



BY SLIPPING A
PEERLESS GLASS REPAIR CLAMP

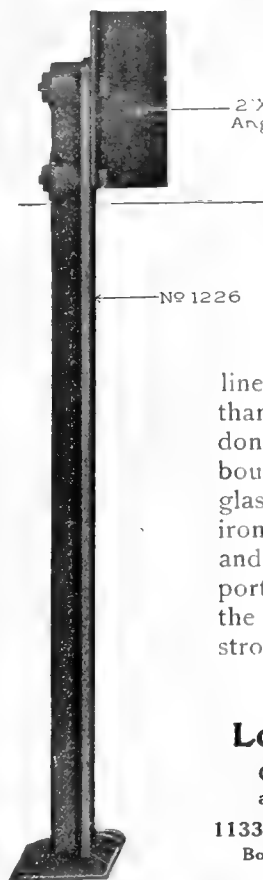
over a cracked glass you protect your stock, save out of glass. Do it now before the first wind play havoc with your roots. \$1.00 with repair 150 lights. Ask your supply in town.

A. KLOKNER, Wauwatosa, Wis.

Endorsed by about 400 prominent florists.

If you want to do business with rose growers or rose dealers, advertise in our Rose Number next week. Send copy at once.

SUN DRIED CYPRESS
GREENHOUSE MATERIAL
IS THE BEST
WRITE
FOLEY MFG. Co.
471 W. 22ND ST.
- CHICAGO -
FOR FREE CATALOGUE
VENTILATING APPARATUS
FITTINGS
HOT-BED SASH
WE MAKE SKETCHES
AND ESTIMATES



Our Greenhouses--and More Foot Piece Talk

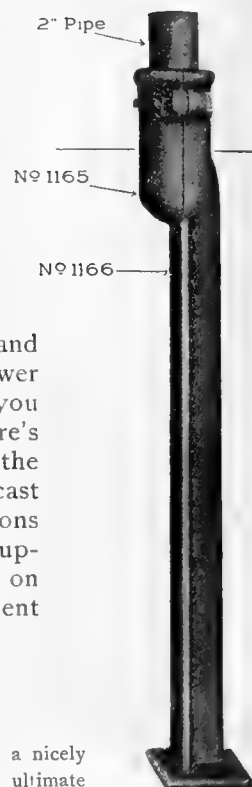
After you have set the wooden posts for your greenhouse, and lined them up carefully, some are bound to be a bit higher or lower than the others. That's a bad proposition to overcome, and if you don't overcome it, there's a wind — where there's a wind there's bound to be an uneven pressure and a continual breaking of the glass not to mention the impossibility of heat tight joints. The cast iron foot piece has an adjustment that takes up all these variations and brings your side supports exact and even. If it's a case of supporting a ridge and furrow gutter, we have a round socket top on the foot piece to take the pipe support, giving this same adjustment strong point.

Lord and Burnham Co.

GREENHOUSE DESIGNERS
and MANUFACTURERS

1133 Broadway, cor. 26th St., N. Y.
Boston Branch: 819 Tremont Building.

You see our greenhouses are really a nicely adjusted, balanced proposition, with ultimate economy always assured.



Interior view of three connected houses, each 24 ft. wide — Our Standard Iron Construction.



Erected complete and heated with the Weathered Sectional Boiler for Chatterton Warburton, Fall River, Mass.

Write him. Send for Catalog.

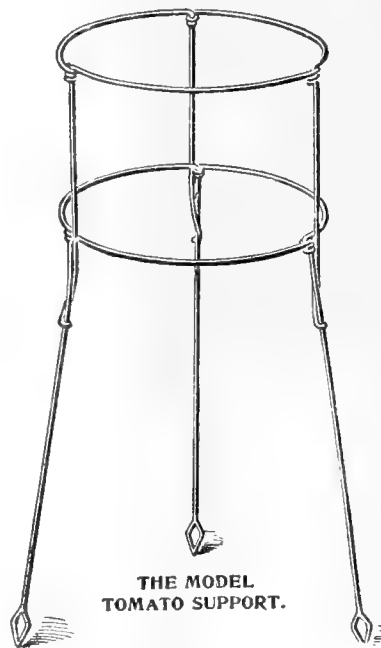
Weathered Company
46 MARION ST., NEW YORK

The Only Perfect Tomato and Plant Support

Made of Heavy Galvanized Wire

\$1.75 per Dozen

\$12.00 per 100



Height complete	34 inches
" of bottom section	24 "
" " top "	12 "
Diameter of circle	14 "

Manufactured by **IGOE BROS.** 226 North 9th St. Brooklyn, N. Y.

HORTICULTURE

Vol. III.

MARCH 17, 1906

No. 11



MADONNA

Raised by John Cook, Baltimore

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

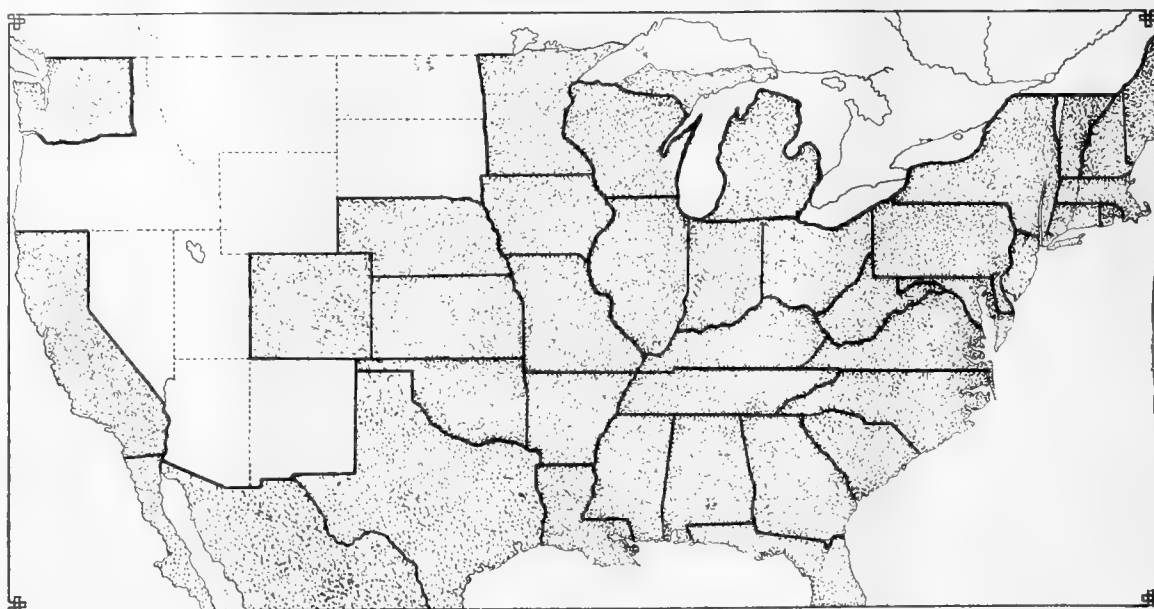
*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

MAR 19 1906

1765

Westward, Ho!

1906

From Massachusetts to California!

The above map shows how **HEWS' POTS** have kept pace with the trend of National Progress

FOR 140 YEARS OUR WARE HAS STOOD FOR

Quality-Durability-Porosity

CUSTOMERS FOR HALF
A CENTURY SPEAK
LOUDER THAN WORDS

HEWS' POTS SOLD 40
YEARS AGO STILL
IN CONSTANT USE

GROWERS ATTRIBUTE
THEIR SUCCESS TO
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NEW YORK BRANCH:

Pearson Street
Long Island City



HYBRID TEA ROSE
J. B. CLARK.

Select List of Hybrid Perpetual and other ROSES

FOR OUTDOOR PLANTING

We make a specialty of preparing Roses for outdoor planting, our stock is all field grown, either American or imported from England or Ireland. The plants (unless otherwise specified), have all during the winter months been potted up into 5 or 6 inch pots according to the growth of the variety, they have been stored in cold houses where they will break away naturally making it the best possible stock for you to sell to your retail customers.

	Per doz.	Per 100.		Per doz.	Per 100.		Per doz.	Per 100.
Abel Carriere.....	\$3.00	\$25.00	Earl of Dufferin.....	\$3.00	\$25.00	Marie Baumann.....	3.00	\$25.00
Alfred Colomb.....	3.00	25.00	Eclair.....	3.00	25.00	Marshall P. Wilder.....	3.00	25.00
Alfred K. Williams.....	3.00	25.00	Etienne Levet.....	3.00	25.00	Meg. Merrills.....	3.00	25.00
American Beauty.....	3.00	25.00	Eugene Furst.....	3.00	25.00	Merveille de Lyon.....	3.00	25.00
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Comtesse of Oxford.....	3.00	25.00	John Hopper.....	3.00	25.00	Sweet Brier.....	2.00	15.00
Comtesse of Roseberry.....	3.00	25.00	Lady Penzance.....	3.00	25.00	Soleil d'Or.....	3.00	25.00
Camille Bernardin.....	3.00	25.00	Lord Penzance.....	3.00	25.00	Star of Waltham.....	3.00	25.00
Crested Moss.....	3.00	25.00	Louis Van Houtte.....	3.00	25.00	Senator Vaisse.....	3.00	25.00
Dinsmore.....	3.00	25.00	Marchioness of Lorne.....	3.00	25.00	Tom Wood.....	3.00	25.00
Duke of Edinburgh.....	3.00	25.00	Margaret Dickson.....	3.00	25.00	Ulrich Brunner.....	3.00	25.00
Duke of Teck.....	3.00	25.00	Mabel Morrison.....	3.00	25.00	White Provence.....	2.50	20.00
Dr. Andry.....	3.00	25.00	Magna Charta.....	2.50	20.00	White Provence.....	2.50	20.00
Duke of Wellington.....	3.00	25.00	Marchioness of Downshire.....	3.00	25.00	Victor Verdier.....	3.00	25.00
Dupuy Jamain.....	3.00	25.00	Marchioness of Dufferin.....	3.00	25.00	Victor Hugo.....	3.00	25.00

HYBRID TEA AND OTHER EVERBLOOMING ROSES

FOR OUTDOOR PLANTING

	Inch pots.	Per doz.	Per 100.		Inch pots.	Per doz.	Per 100.		Inch pots.	Per doz.	Per 100.
Belle Siebrecht.....	5 & 6	\$3.00	\$25.00	Helen Gould.....	4	\$2.00	\$15.00	Mme. Camille.....	5	\$2.50	\$20.00
Bessie Brown.....	5 & 6	3.00	25.00	Ideal.....	5	3.00	25.00	Mme. Jules Grolez.....	5	3.00	25.00
Beauty of Rose- mawr.....	4	2.00	15.00	La France.....	6	3.00	25.00	Mme. Rene Gerard.....	4	2.00	15.00
Bridesmaid.....	5	3.00	25.00	Liberty.....	5	3.00	25.00	Mrs. B. R. Cant.....	5	2.50	20.00
Caroline Testout.....	6	3.00	25.00	Kaiserin Augusta				Madalena Scalaran- dis.....	4	2.00	15.00
Champion of the World.....	4	1.50	12.00	Victoria.....	5	2.50	20.00	Marie Guillot.....	4	1.50	12.00
Clothilde Soupert.....	4	1.50	12.00	Maman Cochet				Papa Gontier.....	4	1.50	12.00
Coquette de Lyon.....	4	1.50	12.00	Pink.....	5	2.50	20.00	Perle des Jardins.....	5	3.00	25.00
Duchess de Bra- bant.....	4	1.50	12.00	White.....	5	2.50	20.00	Queen's Scarlet.....	4	1.50	12.00
Etoile du Lyon.....	4	1.50	12.00	Marie Van Houtte	4	1.50	12.00	Safrano.....	4	1.50	12.00
Etoile du Lyon.....	5	2.50	20.00	Marie Van Houtte	5	3.00	25.00	Souvenir de la Mal- maison.....	6	3.00	25.00
Franz Deuze.....	5	3.00	25.00	Mme. Joseph				Souvenir de Wootton	5	3.00	25.00
Francesca Kruger.....	4	1.50	12.00	Schwartz.....	4	1.50	12.00	Sunset.....	5	3.00	25.00
Gross an Teplitz.....	6	3.00	25.00	Mme. Abel Chate- nay.....	4	1.50	12.00	The Bride.....	5	3.00	25.00
Hermosa.....	5	2.50	20.00	Mme. Abel Chate- nay.....	5	3.00	25.00	Vicountess Folk- stone.....	6	3.00	25.00

RAMBLER, CLIMBING AND TRAILING ROSES

STRONG TWO YEAR OLD PLANTS MOSTLY IN 6-INCH POTS

	Per doz.	Per 100.		Per doz.	Per 100.		Per doz.	Per 100.
Crimson Rambler.....	\$3.00	\$25.00	Wichuraiana Mandas Tri- umph.....	\$3.00	\$25.00	Gloire de Dijon.....	\$3.50	\$25.00
Philadelphia Rambler.....	3.00	25.00	Wichuraiana Pink Roamer.....	3.00	25.00	Devonensis.....	3.50	
White Rambler.....	3.00	25.00	Wichuraiana Universal Fa- vorite.....	3.00	25.00	Lamarque.....	3.50	
Yellow Rambler.....	3.00	25.00	Baltimore Belle.....	2.50	20.00	Marechal Niel.....	3.50	25.00
Waltham Rambler (new).....	4.00	30.00	Prairie Queen.....	2.50	20.00	Solfaterre.....	3.50	
Dorothy Perkins.....	3.00	25.00	Climbing Clothilde Soupert.....	3.00	25.00	Reine Marie Henriette.....	3.50	25.00
Wichuraiana.....	2.00	15.00	Chromatella.....	3.50		W. A. Richardson.....	3.50	
Wichuraiana Debutante.....	3.00	25.00				White Banksia.....	2.50	
						Yellow Banksia.....	2.50	

ROSES WITH LONG CANES

We can supply Gloire de Dijon and Marechal Niel Roses in 7-inch pot grown plants with canes 8 feet long at \$1.25 each.

NEWER VARIETIES OF ROSES

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The Baby Rambler. We have an immense stock of this popular bedding rose. 4-inch pots, \$3.00 per dozen, \$25.00 per 100. 5-inch pots, \$4.50 per dozen, \$35.00 per 100.

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 Anna de Diesbach, beautiful carmine.
 Baron Bonstetten, dark crimson.
 Baron Haussmann, carmine.
 Baronne de Maynard, white.
 Baroness Rothschild, pale flesh.
 Bessie Johnson, bluish white.
 Ball of Snow, pure white, excellent variety.
 Capt. Christy, delicate rose.
 Capt. Haywood, bright carmine crimson.
 Celine Forestier, yellow.
 Charles Lefebvre, brilliant velvety crimson.
 Chestnut Hybrids, light rose.
 Coquette des Alpes, white.
 Charles Lamb, bright cherry rose.
 Comtesse Julie de Schulenberg, dark red.
 Countess of Oxford, carmine.
 Duke of Edinburgh, rich brilliant vermilion.
 Fisher Holmes, rich crimson, shaded scarlet.
 Frau Karl Druschki, pure snow white, long pointed buds; large full flowers; free and constant. Finest white rose grown. (\$15.00 per 100).
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 Gen. Washington, red, shaded crimson.
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 Gloire de Margottin, red.
 Jeanne Dickson, silvery rose.
 Jean Liabaud, bright deep crimson maroon.
 John Hopper, rose crimson.
 Jules Margottin, brilliant glossy pink.
 Louis Van Houtte, reddish scarlet.
 Mad. Chas. Wood, clear rosy crimson.
 Mad. Gabriel Luizet, light silvery pink.
 Mabel Morrison, pure white.
 Margaret Dickson, pure white.
 Marshall P. Wilder, cherry rose, mingled with carmine.
 Mme. Plantier, white.
 Marie Baumann, carmine.
 Magna Charta, bright pink, suffused with carmine; a grand variety.
 Mrs. John Laing, soft pink color, large and full.
 Mrs. R. G. Sherman Crawford, clear rosy pink, outer petals shaded to pale flesh, very free, a grand rose.
 Monsieur Boucenne, deep crimson.
 Marchioness of Londonderry, pure ivory white, very large petals of great substance; high centre and good form.
 Paul Neyron, dark rose.
 Paeonia, light red.
 Prince Camille de Rohan, fiery red.
 Perle des Blanchies, white, pale center.
 Pius IX, beautiful shade of red.
 Princess de Bearn, bright red.
 Princess Louis Victoria, bluish white.
 Ulrich Brunner, red cerise.
 Victor Verdier, bright rose.

HYBRID TEA VARIETIES.

\$2.00 per dozen; \$15.00 per 100.
 (except where noted)

Augustine Guinoisseau, White La France.
 Baldwin, carmine crimson.
 Caroline Testout, bright salmon pink.
 Etrole de Lyon, bright sulphur yellow (\$3.50 per dozen).
 Fellemberg, deep rosy red.
 Gruss an Topfritz, crimson scarlet.
 Grace Darling, salmon, shaded rose.
 Helen Gould, rosy crimson.
 Kaiserin, White (Kaiserin Augusta Victoria).
 Kaiserin, Pink, (Mad. Jules Grolez) \$4.00 per dozen).
 Kaiserin, Red (Mad. Abel Chitenay) (\$3.00 per dozen).
 L'Innocence, pure white.

Mad. Joseph Combet, cream white.
 Souv. de la Wooten, rich velvety red.
 Souv. de la Malmaison, pink.
 Souv. du Pres. Carnot, rosy flesh.
 Viscountess Folkstone, creamy pink (\$3.00 per dozen).

HYBRID TEA VARIETIES.

(Newer Kinds.)

Archiduchesse Maria Immaculata, bright red (\$3.00 per dozen).
 Duc Engelbert d'Arenberg, red (\$3.50 per dozen).
 Duchesse Hedwig d'Arenberg, bright pink (\$3.00 per dozen).
 Duchesse Maria Salviata, peach red (\$3.00 per dozen).
 Edu. Meyer, copper red, with yellow shading (\$3.00 per dozen).
 Etrole de France, fine velvety crimson; a beautiful novelty, \$7.50 per dozen.
 Friedrich Harms, yellowish orange, with cream; one of the best hybrid teas introduced within the last years (\$6.00 per dozen).
 Killarney, flesh shaded white; fine (\$3.50 per dozen).
 Pharisser, tender rosy, on long strong stems; fine for cut flowers (\$4.00 per dozen).
 Reine Marie Henriette (Red Gloire de Dijon) identical to the popular Gloire de Dijon and has the same fascinating qualities (\$4.50 per dozen).
 Richmond, beautiful crimson (\$3.50 per dozen), 3 in. pots.
 Souv. de Mad. Helene Lambert, dark red (\$3.50 per dozen).

TEA SCENTED AND NOISSETTE VARIETIES.

\$2.00 per dozen; (\$15.00 per 100).
 (except as noted).

Dr. Grill, coppery yellow, shading to rose (\$4.00 per dozen).
 Francisca Kruger, copper yellow.
 Gloire de Dyon, yellow, shaded cream (\$3.00 per dozen).
 Mad. Lombard, rosy bronze, shaded with carmine.
 Maman Cochet, deep flesh pink.
 Maman Cochet, white.
 Marechal Niel, yellow (\$3.50 per dozen).
 Marie Van Houtte, lemon yellow (\$4.00 per dozen).
 Perle des Jardins, deep straw or canary yellow (\$3.50 per dozen).
 Souv. de Pierre Notting, deep apricot yellow, shaded orange.
 W. A. Richardson, deep orange yellow.

TEA SCENTED AND NOISSETTE VARIETIES.

(Newer kinds.)

G. Nabonnond, soft pink (\$3.50 per dozen).
 Safrano, a fleurs rouges, red (\$3.50 per dozen).

CLIMBING VARIETIES.

\$2.00 per dozen; (\$15.00 per 100)
 (except as noted).

Baltimore Belle, flesh white.
 Celine Forestier, pale yellow.
 Clothilde Souper, outer petals white, centre rosy.
 Crimson Rambler, crimson scarlet.
 Empress of China, bright pink.
 Helene, delicate violet color; buds carmine.
 Jules Margottin, glossy pink or flesh.
 La France, delicate silvery rose.
 Mme. Plantier, white.
 Marie Derrmar, double white; vigorous grower.
 Paul's Carmine Pillar, beautiful large dark red.
 Pink Rambler, pink or rose colored.
 Psyche, pale rosy pink.
 Queen of the Prairies, clear bright pink.

Seven Sisters, color varies from white to crimson.
 Triumphant, pink.
 White Rambler, white.
 Yellow Rambler, yellow trusses in great profusion.
 Zepherine Drouhin, a very handsome hardy climbing thornless variety, with dark green, rich handsome foliage. The flowers are a lovely shade of rich pink and perfectly formed buds; strong 2 yr. old (\$4.00 per dozen).

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\$2.00 per dozen; \$15.00 per 100.

Blanche Moreau, white.
 Crested Moss, rose.
 Chapeau de Napoleon, red.
 Dr. Berthier, brilliant cherry red.
 Double white, white.
 Glory of Mosses, carmine rose.
 Mad. William Paul, clear rose.
 Mad. Moreau, red vermillion.
 Old rose, pale rose.
 Red Moss, red.
 Valet, vivid rose.

RUGOSA VARIETIES.

\$2.00 per dozen
 (except where noted).

Aba, white.
 Conrad Ferdinand Meyer, clear silvery pink (\$2.50 per dozen).
 Mme. Georges Braunt, white, semi double.
 Rosea, rose.
 Rubra, red.
 Rugosa alba plena, white, with delicate pink centre (\$3.00 per dozen).

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 (except where noted).

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 Evergreen Gem, buff, changing to white.
 Pink Roamer, rich pink.
 Ruby Queen, beautiful ruby red flowers (\$3.00 per dozen).
 Wichuraiana, pure white, single.

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 (except where noted).

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 Persian Yellow, deep golden yellow flowers, double.
 Soleil d'Or, changing from orange yellow to reddish gold and nasturium red; distinct.

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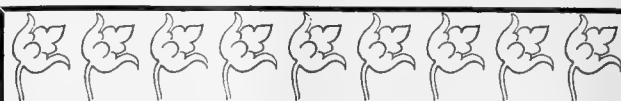
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HORTICULTURE

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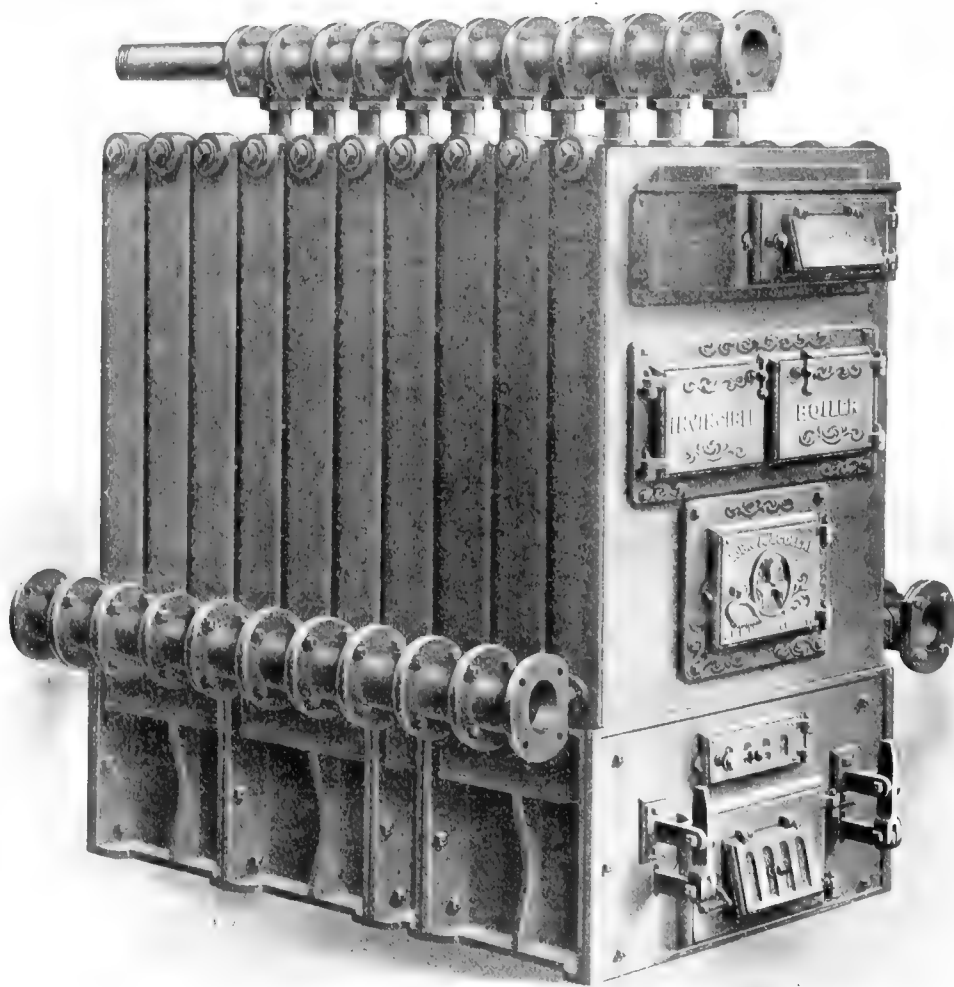
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Some Cook Roses



COOK SEEDLING, NO. 226.



COOK SEEDLING, NO. 266.

Our frontispiece shows the new rose *Madonna*, one of the best of John Cook's productions. We recently described a visit to the "Mecca" of American rose hybridists, viz., E. G. Hill's at Richmond, Ind. If Mr. Hill's place may be called the Mecca then may Mr. Cook's be aptly termed the "cradle" of American rose hybridizing. *Madonna* is a superb white rose with creamy centre, full double, opening perfect and deliciously fragrant; the foliage is rich and thorns few. No. 226 figured herewith, is of *Bonsilene* color, with silvery lining. It is a rampant grower and the flowers are very large. No. 266, also illustrated in this issue, is a *Jacqueminot* crimson of great promise. Like the two others above described it is the result of crossing and recrossing Mr. Cook's own seedlings for three generations. Every shoot, he tells us, produces a flower

on a stiff, erect stem. Another of Mr. Cook's named varieties is *Cardinal*, a fine large crimson scarlet. No. 367 is evidently a tea in all except fragrance, which is that of a garden hybrid. Its color is similar to that of the pink pond lily, and there are seven leaflets on each leaf. No. 357 is very dark, approaching the shade of *Prince Camille de Rohan*. The petals are wavy edged, slightly incurving and rather short. The fragrance is equal to that of *American Beauty*. No. 310 is *Brunner* tint on the outside petals shading to deep crimson in the heart. It shows tea lineage in foliage and stem and the fragrance is well mingled between hybrid perpetual and tea.

There are many other seedlings coming on at the noted Baltimore establishment from among which we may expect to see some promising additions to the list of American forcing roses.

New Roses

The years 1904 and 1905 have produced some excellent new roses. It may be of interest briefly to review some of the most noteworthy varieties exhibited in this country during that time. One of the finest of all is the new Hybrid Tea rose, *J. B. Clark*, which is faithfully shown in the accompanying supplement. This rose was sent out by Hugh Dickson, Belfast, Ireland.

At the show of the National Rose Society held in London in July last, something of a sensation was caused by a magnificent bloom of rose *J. B. Clark* in the stand of flowers shown by Hugh Dickson. The

flower was 5 inches deep and 7 1/2 inches in diameter, probably the largest bloom of a Hybrid Tea ever shown. It worthily obtained the silver medal as the best flower of a Hybrid Tea Rose in the show. The coloring is rich deep scarlet, shaded with blackish crimson. It has been alluded to as "the grand Liberty." One of its parents is said to have been the old Hybrid Perpetual Rose *Lord Bacon*; sent out by William Paul & Son, Waltham Cross, some years ago. This is a good red variety that blooms well in the autumn when most of the Hybrid Perpetual roses are over. Rose *J. B. Clark*

obtained the gold medal of the National Rose Society (the highest possible award) at the autumn exhibition in 1904.

On the same occasion the gold medal was awarded to a new rose called Irish Harmony. This is a lovely single rose, a creamy white flower; the foliage is bronze-colored and associates with the large creamy-white flowers very effectively. Shown by Alex. Dickson and Sons, Ltd., Newtownards, Ireland.

Hugh Dickson is another grand new rose, a Hybrid Perpetual; it has also obtained the gold medal of the National Rose Society. Sent out by Hugh Dickson, Belfast. It is a flower of large size and exquisite form, of deep crimson, scarlet-coloring. It also has the merit of being delightfully fragrant; one cannot unfortunately say this of all the new roses. In July, 1905, only two new roses obtained highest honors and both were shown by Alex. Dickson and Sons, Newtownards, Ireland. One of them was Betty, a large tea rose of somewhat loose form, very vigorous, blush tinged with buff-color in the centre and with rose outside. It is fragrant, and on account of its bold appearance and soft coloring will doubtless soon become a favorite. The other gold medal rose is Mrs. Myles-Kennedy, a large and attractive flower (Hybrid Tea) of good form, of pale blush coloring tinged with a deeper shade in the centre. This rose is also sweetly scented. On this occasion an award of merit was given to a new rambler rose called Mrs. F. W. Flight, exhibited by Cutbush & Son, Highgate, London. The flowers which are so freely produced as to be closely packed on the shoots, are very bright rose, fading to light pink with age.

Three new roses received recognition at the autumn show of the National Rose Society in September last. Two received the gold medal, namely, Irish Elegance and Countess of Gosford.

Irish Elegance is a very beautiful single rose; the large flowers are soft salmon pink and the buds and flowers are richly tinted with red and apricot. This lovely garden rose was shown by Alex. Dickson & Sons.

Countess of Gosford is a handsome seedling Hybrid Tea rose, of good form, the petals being elegantly waved.

The color is deep salmon pink. Shown by S. McGreedy & Son, Portadown, Ireland. A card of commendation, an award inferior to the gold medal was given to rose Dorothy Page Roberts. This is a beautiful Hybrid Tea, a large flower with reflexing petals; color rich rose pink, which fades to a lighter shade as the blooms age. Alex. Dickson and Sons.

Among new rambler roses the favorite was the new Lady Gay, so finely shown, growing in pots by William Paul & Son at the Temple Show. The large free pillar plants were masses of the lovely rich pink flowers and attracted much attention. It will no doubt soon become a feature of English gardens, for with the pergola now commonly seen in many gardens, rambling and climbing roses have become very popular.

Harry H. Thomas

British Horticulture

NOTED ROSARIANS.

Among the leading exhibitors of roses the names of Messrs. G. and W. H. Burch occupy a prominent position. Their list of awards totals 896, including several medals from the National Rose Society. At their nursery at Peterborough they have 16 houses devoted to rose culture. The great majority are grown in pots, including 10,000 Niphetos. Questioned as to the methods of culture adopted, the head of the firm recently stated: "Our chief aim is to produce a good, bold flower instead of a flimsy, flabby one, and we rather pride ourselves that our roses are easy to distinguish by the stiff petals. One reason for that is that they are not driven, but only moderately forced. The importance of moderate forcing cannot well be exaggerated. For instance, by keeping our roses at a moderate temperature only they last in bloom for six months instead of for two or three." The cutting of bloom commences in earnest in January, and when this is in full swing from 6000 to 7000 are cut in a week. Among the newer varieties being cultivated are Lady Gay, Hiawatha, Wedding Bells, Debutante, Minnehaha, Sweetheart, Carissima, J. S. Fay and J. B. Clark, the last named being a companion rose to the popular Frau Karl Druschki.

THE OUTDOOR SECTION.

Many acres are devoted to the standards, dwarfs and climbers. Thousands of standards are cultivated from which the best exhibition blooms are obtained, a great point being made in keeping the stems perfectly clean. There is a large stock of dormant buds, the great majority of which are on the seedling brier. Mr. Burch is a strong advocate of this method, because of the lasting quality of the flower produced and the longer life of the tree. The wood is much harder than that of roses grown on other stocks, whilst they more effectively resist the frost. Asked as to the changes in the system of modern planting, Mr. Burch replied: "This has changed very much even during the last ten years. For example, in the formation of roseries, the modern custom is to plant beds of individual varieties. We have just supplied a very fine rosery of 18 beds, each containing 24 trees of one variety. This not only gives a very pleasing effect, but it is also exceedingly useful in these days of economizing time for table decorations, where only one color is used. The idea may be carried out in various designs, with arches and pergolas introduced to break up the monotony. A recent novel design in a garden not far from here is a centre bed of Caroline Testout to represent a table, and 13 beds of various colors to represent 13 chairs."

COVENT GARDEN MARKET EXTENSIONS.

The steady increase in the flower trade has necessitated another extension to Covent Garden Market. Sometime ago a new block of buildings was added to accommodate the foreign section. Now the home trade is to receive additional space. A substantial new building is now in course of erection on the site previously occupied by some ancient property. This will be about 75 feet by 95 feet, and will give additional space for 90 stands. There are many of the existing tenants who are desirous of obtaining more room, whilst it will also be possible to admit several florists who have hitherto been left out in the cold owing to the want of space.

At the present time the market is well supplied with cut bloom. Heavy consignments of daffodils are coming to hand from Guernsey and the Scilly Islands. Increased attention is being paid to carnation culture, and there is now a tendency to overdo this branch. The blooms have never been so plentiful as at the present time. The most popular lines include Enchantress, Mrs. T. W. Lawson and Governor Roosevelt. The first named has been making the top price, averaging from 4s. to 5s. a dozen blooms, whilst the others make from 3s. to 4s. a dozen. Florists report that the American tree carnation is steadily growing in favor, the meritorious displays made at the Royal Horticultural Society shows having done a great deal to popularize the bloom.

W. H. Adsett.

London, Eng., March 3, '06.

Some Interesting Results in Rose Hybridization

Hybridizers are working industriously to get a race of hardy roses. *Rosa rugosa* seems to be a favorite to work upon and we are promised a fine set of this crossing from that tireless hybridizer, Dr. Muller, of Germany. He also has some of the Persian Yellow type which will be, however, sent out by the firm of J. Gravereaux-L'Hay, in France. Now, why not try the *Rosa multiflora* and, instead of using it as a seed bearer, use it as the pollen bearer. Some six years ago I crossed the Caserta with the pollen of the multiflora and I got three seedlings out of it which proved extra strong growers, more like the Caserta than the multiflora, and perfectly hardy. The flowers were pure white, fully four times as large as the multiflora, blooming in clusters of three and four flowers. I have no doubt, if this rose had been recrossed with one of the hardiest hybrid tea roses, some good results might have come out of it. I was not working then in the direction of hardy roses. I grew them a few years, and then as the bushes became too large I grubbed them out, for which I am sorry now.

Our native *Rosa setigera* is one which I think would produce better results than *Rosa rugosa*. It may be objected that this is a climbing rose; well, I've had climbers from dwarfs, why wouldn't it be possible to get dwarfs from climbers? I have two seedlings now, a cross between Billard et Barre and Marechal Niel, both climbers. One of the seedlings is all growth and no flowers; the other grows about five inches and then makes a bud. It took twenty flowers of the Marechal Niel to produce enough pollen to fertilize one flower. I also fertilized Billard et Barre with Persian Yellow. The seedlings had the same habit as the Persian Yellow; the lower leaves would always ripen up and drop. In trying to keep them growing through the winter they became sick and died. They should have been kept dormant through the winter. I could cite many other instances of climbers producing dwarfs. It will very likely take a good many years in crossing and recrossing, besides patience and perseverance to get something nearer to what we are seeking.

John Cook

Damping off of Seedlings

This disastrous disease to young seedlings is common enough to every gardener, and that it is caused by a parasitic fungus, has been known for many years. This fungus is botanically called *pythium*, and the most common species is *baryanum*. The hypha of the fungus makes its way into the tiny stem of the seedling, by way of the stomata, or by boring its way through the delicate cuticle.

Some botanists affirm that the tips of the hypha secrete a ferment which dissolves the cell wall of the plant it comes in contact with, and so enables it to enter; while other ferments bring the organic substances of the host into a condition in which the parasite can assimilate them. It usually enters the plant just at the surface of the ground. After it once gets in it goes on growing and branching through the whole system of the plant. The stem of the young seedling soon tumbles over because the tissues become so much damaged and decayed that the tiny stem has not the strength to stand upright. Once the plants fall they soon rot entirely away. The only cure for this disease is to change the atmospheric conditions at once and also to keep the seed bed drier. Where damping off is in evidence, at some time or other there has been a too close atmosphere and too much moisture.

Pythium, although a fungus is closely allied to the algæ, and requires moisture for its normal reproductive process to go on. If a check is not given to the fungus by a change of conditions, it will very soon destroy all the seedlings in the seed box. The best way to save any seedlings out of an infested box is to transplant all that are unaffected into fresh soil.

W. H. Waite

Begonia Gloire de Sceaux

We doubt if one would be able to find this begonia in six commercial places in this country if one wanted to buy a small stock of it. Yet we have had the pleasure of seeing it growing to perfection in two private places in the vicinity of Philadelphia this season. We do not recall when it was sent out, but can remember growing it in England once ten years ago. We believe there is a great future before this plant and can safely say that if properly handled it would make an excellent plant for the Christmas season. The foliage is of a bronzy metallic lustre, crimson beneath. The flowers are freely produced during the winter months; color, a bright rose pink after the style of the light pink Lorraine, but the flowers are much larger in size.

The culture of this plant varies little from that given to the Lorraine family, with the exception that it will not stand quite as much sunlight and that the foliage should never be wet. If wet, the foliage soon gets rusty. We believe it would propagate as freely as the Lorraine family as one-year-old plants produce cuttings freely from the base during the month of March. The temperature to grow it in is from 60 degrees to 65 degrees at night during the winter months; pot in a rather light soil.

John Thatcher

The Innate Tendency of Life Toward Perfection

Recent articles in this periodical are suggestive of interesting problems in plant life. The question whether life has an inner tendency to advance was asked long ago, and the great natural philosophers have answered it in various ways. One of the most interesting and deeply reasoned theories is that of Nageli, the great German botanist and professor in Munich, who held that there is internal perfecting force which brings the evolution of organic being forward independently of the struggle for existence; so that, according to Nageli, even had there been limitless means and no struggle for existence, no survival of the fittest and death of the less fitted to survive, the progress of the life-series would have been much the same as it has been. His reasons were drawn from the nature of force and matter as well as his own profound knowledge of plant life and structure, and filled a book. Lamarck early in the 19th century explained evolution in a way which practically means that life has something in it which tends toward improvement. In animals this is the will of the animal to adapt himself to the surroundings, which results in the modification of his bodily structure through the increased use of special parts; and in plants a power of the plant to adapt itself directly to the environment, so that plants become necessarily better and better adapted to their habitats. Some botanists now hold to this definite improving tendency in plants, and I recently listened to a long paper by George Henslow before the Linnaean Society of London, meant to prove that this is the way that evolution comes about. Darwin, on the contrary, thought that variation is blind, that some new varieties are worse than the parents, some better, as determined merely by accident; and that the better varieties are selected and kept by Nature, as Darwin figuratively put it, and the worse allowed to die, and that thus life actually advances without any distinct innate tendency to progress. One of the best and most interesting contributions to this subject is the work of Hyatt, the Boston naturalist, on fossil mollusks of the Chambered Nautilus kind. He was able to follow the history of some species from their rise in the earlier geologic days to their extinction in later times and found that species begin with rather simple form of shell, this becomes more perfect and elaborate as time goes on, until the highest development of the species is reached. After that there is a decline, the shells become less elaborate and simpler, and finally the race disappears. The history of one of these species is like that of a wave moving over the surface of the ocean, which commences as a little elevation, grows bigger and bigger to a maximum and then dies out, its place taken by a succeeding wave which seems to get its impulse from the decline of the first. Or it is like the life of an individual, with infancy, youth, vigorous manhood, old age, and death.

Looking at the history of all life on earth we see two opposite results. First there has been progress. The

simplest green plants are very small spherical bodies, of course without root, stem, or leaf; or rather the plant-body is both root and leaf at the same time; that is, it both absorbs nutrients and makes food for itself. Two or three hundred of these plants must be placed side by side to make an inch, and only when myriads of them occur together do they catch the eye, not then as distinct structures but as tinges of green on earth or moist tree trunks, or a greenness of waters. These forms represent a kind of vegetation that must have been alone on the earth in very early times. Contrasting with these we see the highest plants, enormous in size, like the giant Sequoias and Eucalypts—the multiplication in mere bulk from the little green alga mentioned to these monsters being some millions of millions of times—and highly organized with root, stem, leaf, flower, fruit, seed, wonderful in complexity, in nice adaptation to life-work, in variety, in beauty and in usefulness. When we look into their inner organization with the eye of the microscope and find there a perfection and adjustment of all little organs the wonder becomes manifold. The effect is to compel one to ask himself, Is it possible that mere chance variation with selection in the struggle for existence, without any natural and fundamental principle of progress, has brought about such vast development, such multitudinous forms and stages of perfection?

On the other hand the simple plants still remain, which must be of very ancient standing indeed since we know of still higher forms from the earliest fossil-bearing beds. For inconceivable ages these little plants have lived on, one generation succeeding another without notable improvement, merely telling the same life-story with untiring repetition through endless years. There seems to be no internal perfecting principle in them. And this condition is reiterated in each stage or grade of evolution. The rocks have kept the record for us and tell the story of inveterate conservatism on the part of many forms—as well as of progress on the part of others. To come to present-day species we find some very interesting cases of fixity. There is a species of Horsetail, *Equisetum Telmateia*, found on the west coast of America from California to Alaska. The same Horsetail occurs in Europe, North Africa and Asia Minor to Persia. Owing to the perishable nature of the spheres, the species could not have been carried in sphere-form from one region to the other. When we consider the time which must have elapsed since there was any common point of origin between the section of the species in America and that on the opposite side of the world, and further find that the only difference which a careful study reveals, between the species here and the species there, is the occurrence of microscopic pores in the American forms, we realize that the organization of this plant is very fixed indeed. Of the same character is the discovery, made by Gray, that the floras of northeastern America and Japan have a striking

similarity, with many practically identical species, which must have been derived from the same ancestral plants. This connection was thousands of years ago. Since that time, these many species have remained practically stationary and unchanged. Likewise the high desert vegetation of eastern South America has numerous species in common with that of western Africa. The common species could not be carried from one continent to the other by winds, birds, or ocean currents, across the present expanse of water, in many cases, as Engler has shown. Only by some connecting land mass with high desert areas could these species have got from one place to the other; and such a road can not have existed in recent times. Hence the species which are alike on both sides of the Atlantic must have remained practically in their present form for long ages.

I think the general conclusion must be that there is no universal tendency to improvement, as an inherent quality of life itself.

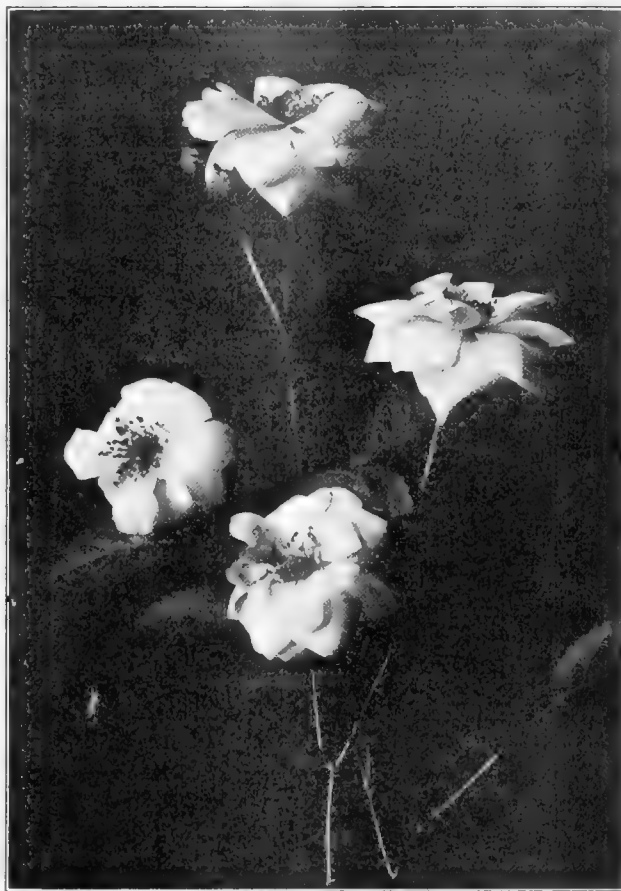
We must take Mr. Burbank's phrases quoted by Mr. White in the issue of 3d March—"the upward, outward and onward movement of life," "life forces in their march," "life forces compared to a river pressing forward"—not as the pronouncement of accurate and wide study but rather as the delightfully exuberant faith of one who is at the same time a doer of things and a poet who attributes his own nature to the realm of plants which he loves.

Such are some of the broader aspects of the question. The more practical side of it concerns the cultivation of improved races of plants. If these races have this rise and fall, like the natural species described by Hyatt, then it is useless to seek to check the retreat of those which seem to be universally going down, as some assert to be the case with various potatoes, apples, etc. The study of constitutional deterioration would seem to be important.

Besides seed-selection and cultivation, two possible factors of deterioration that might well be discussed by experienced growers, are (1) vegetative selection and (2) the effect of the treatment of the parent plant on the character of the seedlings derived from that plant. As regards the latter factor, it is supposable that with some plants, the kind of cultivation which promotes good crops may, when long continued, weaken the seed. In such a case stock-plants for seed would have to be cultivated in a manner different from that which suits the set designed for yield. Has it been observed that exceptional vegetative vigor and yield in individuals of one generation, induced by high cultivation, is to the hurt of the following generation? Accurate observations bearing on any side of the subject, the effect of cultivation upon the character of seed and the constitution of resulting seedlings, will be of great theoretical, perhaps also large practical, value.

R. G. Leavitt

Rose Schneewittchen



The Polyantha roses are becoming more popular in this country, as they deserve to be. We have been running too exclusively to American Beauties and other long stemmed hot-house varieties. Not but what long-stemmed roses are good, but so are other kinds.

Amongst the various named varieties in this class Schneewittchen is one of the daintiest I have ever seen. I saw this first at a National Rose Show in London a few years ago and got some plants of it from Mr. Bunyard. We have grown it at Massachusetts Agricultural College and the photograph is from a plant in our grounds. The photograph speaks for itself. It shows a rose of uncommon beauty and one which the amateur will be delighted to cultivate. The remarkable ease with which these roses are grown, very properly adds to their popularity.

Nauff

Watch Your Opportunity

The price of HORTICULTURE is but one dollar a year. Every page is edited to be helpful to its readers. Every inch of advertising represents a live business concern.

Eucharis

These pretty and useful flowers are becoming very popular and as a florist's flower might be a very profitable subject. *Eucharis grandiflora*, better known as *E. amazonica*, the Amazon lily, is perhaps the most productive and is under certain conditions very prolific giving three crops of flowers in a year. It loves a rich, somewhat heavy compost, which should be well drained, and never allowed to become sour.

It may be grown in pots, or may be planted out in benches, but to insure success by planting out a house should be devoted to it alone. Pots are to be preferred as the plants do not flower freely until the root area becomes restricted, or under pot culture, pot bound. The plants may be encouraged to grow until the pot or benches become filled with roots, when water should be withheld and the plants kept almost quite dry until the flower spikes appear. The eucharis has a tunicated bulb and, like the *hæmanthus*, which belong to the same natural order, *Amaryllidacæ*, develops the bud which becomes the flower spike while undergoing a period of comparative rest. Water may be freely given from the time the spikes appear until the flower is developed and until the new leaves which follow in the wake of the flowers have matured, then water should

again be withheld and the same process repeated. While the plants are being watered, fertilizer may be applied freely. A warm house with a minimum temperature of 65 degrees F. will suit them while growing. A good light is beneficial, and almost essential, but the plants should be protected from full sunshine in summer. If the plants can be given a little bottom-heat they will respond quickly and will also dry out quickly when drying out is desired. Thrips and mealy-bug are very fond of eucharis foliage, but the leaf is large and easily sponged. While water is being supplied the foliage may be syringed, but syringing during the drying out time would interfere with this somewhat unnatural method of treatment. If the plants are infested with mite the bulbs and roots should be washed clear of soil and all decayed parts removed, then dipped in a fairly strong kerosene solution which should be allowed to dry before repotting. The plants should not be repotted until it is absolutely necessary, as they do not like to be disturbed.

James Hutchison

Eel Worms or Nematodes

Growers often experience difficulty in getting at the cause of certain plant diseases, especially those characterized by wilting, drooping, loss of leaves, or a stunted growth, if not final death. If these symptoms appear and no reason can be discovered in ordinary pests or in the management of the house, it is well to pull up a plant and examine it for nematodes or eel worms, as they are commonly called, a class of vermes, to which the more highly organized earth worms belong. A zoological and not an entomological or a botanical subject, it has not received much attention in its relation to horticulture.

Nematodes occur in all soils, especially old sod and decaying vegetable matter, manure being a frequent source of infection. Under the microscope the worms appear as tiny, eel-like animals that pass rapidly across the field of vision with a wriggling motion. Although there are many species, the range of damage, in the northern region, has been limited to one species, known scientifically as *Heterodera radicola* (Greef.) Mull., but this one species does thousands of dollars worth of damage yearly.

The work of this animal (it is not an insect) is readily distinguished through the presence of small galls or protuberances on the roots of the plant attacked, that resemble the nodules of leguminous plants. These are brought about by an irritation to the root cells caused by the entrance and subsequent multiplication of the worms in the soft cortex of the roots. This irritation causes an abnormal growth in the cells, these in turn twisting and distorting the ducts which carry the sap to the leaves, thus shutting off in a greater or less degree the supply of food and causing the symptoms mentioned in the first paragraph.

The history of the nematodes *Heterodera radicola*, is interesting. The young worm is hatched from a bean-shaped egg 1-250 in. long, carried inside the female. The worm itself is about 1-75 in. in length, and of course invisible to the naked eye. By means of a boring arrangement it bores into young rootlets until wholly out of sight. Coming to rest it increases in size for a couple of weeks until it assumes a spindle shape. At this point the development differs according to the sex. The male transforms and gradually assumes the old thread-like, typical worm shape emerging fully mature, 1-17 in. in length, in about four weeks from the time of entrance.

In the meantime the female develops but not as rapidly as the male, being still immature when she comes out. Instead of turning worm-like again she continues to expand until pear-shaped, while other important changes occur in the various organs. Immediately after emerging the male seeks his mate, fertilizes the eggs, and dies. The females and eggs continue to develop for a couple of weeks to maturity, when the female dies and the eggs previously hatched start a new cycle. The females when full grown are 1-25 in. long, and visible to the naked eye as small bead-like objects in the galls. The eggs soon hatch after fertilization and a new cycle is started.

A number of plants are very susceptible to nematode attacks but unless very numerous the worms can do little harm if the plant is in a vigorous, healthy condition. Among these plants are greenhouse tomato, cucumber, muskmelon, begonia, cyclamen, clematis, fern, heliotrope, roses, and violets. In the North the injurious nematodes is confined wholly within doors, being unable to withstand the severe winter unpro-

tected. In the South, where winters are milder they can survive the year round in the open ground, and hence field crops, especially tomatoes, are often seriously injured by them.

The problem of control is not difficult. A sharp outlook must be kept up to insure prompt attention when the first signs of trouble appear. With greenhouses that are idle in the summer the soil may be rid by closing the houses tight and forking over the soil a few times during the summer. The temperature will go up to 150 degrees and this thorough drying out will "fix" the worms. On the other hand, freezing will destroy large numbers. The most practical method, to date, however, is to sterilize the soil.*

It must be borne in mind that in transplanting roses or violets a certain amount of the old soil remains and

if this is badly filled with nematodes, infection of the sterilized soil will rapidly follow. The only way to secure complete immunity would be to raise cuttings in sterilized sand and plant out-doors in new land where there can be no possible contamination from old greenhouse soil or infested manure piles.

In fields liming the soil at the rate of three tons unslacked lime to the acre is helpful. Catch crops as mustard can be sown and when plentifully covered with galls pulled and burned. Both these methods will not rid the soil, merely keep the worms in check. A better way is to break up new ground and abandon the old for a few years.

*See "Horticulture," December 9, 1905.

R. L. Adams.

Azaleas

Notwithstanding azaleas, with the exception of the Indian species, are deciduous they may be looked upon as among the most beautiful hardy shrubs. The low lands of many parts of New England are scenes of enchanting beauty when the swamp pink, *Azalea viscosa*, is in flower. These make beautiful groups when transplanted into favorable spots on the pleasure grounds. Another species that delights the lovers of flowers is *Azalea pontica* which grows in rich abundance on the Pontine marshes of Asia. *Azalea pontica* is a much more robust grower than the American species, but while its flowers are larger and more conspicuous the wood is stiff and the bush less graceful, nevertheless it is as hardy as our native species and as easily grown. The original variety has yellow flowers but the skill of the hybridist has produced a numerous family of many shades of color, from pale lemon, orange, and red to scarlet, or approaching thereto. A new race, imported from Japan, planted in the Arnold Arboretum, surpasses in brilliancy of coloring any yet seen, and is destined to make a sensation in the floral world. *Azalea mollis* is also very beautiful, bearing large flowers of a soft, delicate salmon which are very attractive. The hybrid varieties of the azalea are legion, and the variations of color and markings full of interest.

The azalea may be propagated in several different ways, this part of their cultivation being usually left to the nurseryman. The ordinary way, and the most certain, is by layers which root the second season. Some species can be increased by division of the roots. Grafting of the choice varieties upon the more vigorous species is greatly practical, because the plants are thus made more compact, symmetrical and floriferous. New varieties are raised from seed which has been pollinated either by insects or artificially. All the processes of propagation are rather slow but when the plants commence a healthy growth they soon make up for the tardiness in starting. Azaleas are not quite so particular as to soil as are rhododendrons; they do not absolutely require peat earth but will thrive on light sandy loam, but that must be enriched by a strictly vegetable fertilizer for, like the rhododendron, they can be easily killed by the application of animal manure especially if it is fresh and unfermented. They are, however, more at home in swamp muck and should always have a proportion of it when it is possible to procure it.

In laying out what in England is called an American plant garden, rhododendrons and azaleas should be

planted in close proximity to each other, because the colors are so different; the rich crimsons, deep purples, pale rose and pure white of the rhododendrons either blend, harmonize, or contrast with the yellow, orange, red pink, or scarlet of the azaleas and the effect is magnificent.

For cut flowers for house decoration azaleas are very useful and may be employed with good effect, lending themselves well to artistic arrangements in combination with suitable green. In this respect they surpass the rhododendrons, the trusses of which are too large when cut. For very large decorations they should be used as entire plants; well grown, dwarf bushes full of flowers are very striking under artificial light. Another reason for their use only in this manner is that the branches of a rhododendron cannot be cut without injuring the symmetrical shape of the shrub from which it will never recover.

The hardy azaleas are capable of forcing and if dug in the fall and placed in a cool cellar, they can be brought in to the conservatory at intervals where they will bloom freely and add greatly to the beauty of the display.

I remember well when the only two Indian azaleas extant were *Indica alba* and *purpurea*, but these were of tall, straggling habit and not capable of being grown into well formed specimens. Then came a new variety, *A. exqu岸ita*; this had better-formed flowers with elegant pencillings in the upper lobe of the blossom and of dwarf, compact habit, and from these all the magnificent varieties we now possess have sprung. In Indian azaleas the plant breeders and selectors seem to have done their best and for compactness of growth, prolific blossoming, and easy culture, for the conservatory and dwelling house, it is doubtful if they can be surpassed by any other decorative plant. The Belgians may be credited in part with effecting this improvement, and the cultivation and sale of this one species has become of great commercial importance. As the roots of azaleas are all fibre a very fine mixture of black earth and sharp sand is essential to their successful cultivation. All powerful fertilizers must be avoided, good drainage must be made, and the plant not watered too freely as to cause the soil to be soiled with water.

Ed Moore

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

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WM. J. STEWART, Editor and Manager.

Our supplement

We take much pleasure in presenting our subscribers with the magnificent rose picture which accompanies this issue of HORTICULTURE. The variety represented, J. B. Clark, has not yet been disseminated long enough to prove its value as a forcing rose; those, however, who have seen it blooming in England are most enthusiastic over its marvelous beauty. The cost of the colored plates which we are issuing twice a month compels us to limit their distribution to regular subscribers hereafter. "A word to the wise is sufficient."

Meeting of American Rose Society

This is our last opportunity to say a word concerning the approaching rose festival at Boston before the opening of that interesting event. Visitors from far and near will be present in goodly number and will receive a hearty Boston welcome. The occasion combining as it does the Rose Society's best effort with the great spring show of the Massachusetts Horticultural Society, is one that will leave its impress on our horticultural progress and cannot fail to definitely benefit those who are so fortunate as to be present. Don't stay away if you can possibly attend.

The free seed abuse

The visit of the seedsmen to Washington, which our news columns record, was a well-timed and well-directed effort and will undoubtedly bear good fruit. It is almost too much to believe that the free seed abuse is to come to an end within the next few days, but the changing sentiment among those who have it in their power to accomplish this is most encouraging, and persistent work on the present lines of attack will surely bring victory sooner or later. It has been a long and seemingly, at times, hopeless struggle, and congratulations on the improved outlook are in order. We urge

upon every reader of these lines to write at once to his Senator and Representative asking that they oppose the appropriation for free seed distribution. The matter must be settled before March 31.

The Queen of Flowers

This is our second rose number and we feel somewhat proud of it. As the precursor of the Rose Society's exhibition it will be perused with especial interest by all who are seriously concerned in the reinstatement of the rose to its merited prominence in our gardens. In the rose Nature has given us her best in floral grace and comeliness. Its indescribable charms have gladdened human eyes and souls with sweet inspiration in times of gladness and of sorrow alike and from time immemorial it has been loved as no other flower has been loved. It is well that earnest endeavor should be made by those in whose life work rose growing forms so important a part to stimulate a new appreciation and to awaken more widespread interest in the work of adapting it to better withstand the rigors of our climate.

An outdoor exhibition at Dayton

To those who have for many years advocated the giving of an outdoor exhibition in connection with the annual conventions of the S. A. F., as well as to those friends of the society who have desired to see its activities extended in new and practical directions, the announcement in our news columns of the proposed outdoor display at Dayton will come as welcome news. That the nurserymen and garden plant growers will take prompt and enthusiastic advantage of this opportunity to display summer blooming and decorative material in proper form before the trade cannot be doubted and that a ready sale for the goods shown and many more besides will be found in a city which is credited with having made remarkable progress in the appreciation and practice of civic and home adornment is a foregone conclusion. The idea is a success from the start.

The proposed national flower show

The national flower show project has again been taken up by the S. A. F. committee appointed at Washington last August and an active canvass of the trade has been started to secure the guarantee fund of ten thousand dollars, which is regarded as necessary before anything else can be done. We hope to see the committee successful in raising this money. Even though the show should not be a big financial success there can be no question as to the ability of the great floricultural interests of the country to assemble together the material to make an exhibition of unprecedented extent and grandeur which cannot fail to benefit the trade to a much greater extent in the aggregate than the value of any financial risk which may be taken. It is to be hoped that the right sentiment may be aroused and that work may begin promptly, as the time is already too short if the show is to be held as proposed—in the spring of 1907.

PERFUMED FRAGMENTS.

"My love has breath o' roses,
O' roses, o' roses,
Wi' arms o' lily posies,
To fauld a lassie in."

"O gin my love were yon red rose,
That grows upon the castle wa',
And I mysel' a drap of dew,
Down on that red rose I would fa'."

"Whatsoe'er of beauty
Yearns and yet reposes,
Blush, and bosom, and sweet breath,
Took a shape in roses."

"Look to the blowing Rose about us—
'Lo,
Laughing,' she says, 'into the world
I blow,
At once the silken tassel of my Purse
Tear, and its Treasure on the Garden
throw.'"

"There grows a bonnie brier bush in
our kail yard,
And white are the blossoms o't in our
kail yard,
Like wee bit cockaids, to deck our
hieland lads,
And the lassies lo'e the bonnie bush
in our kail yard."

"When the young Rose, in crimson
gay,
Expands her beauties to the day,
And foliage fresh her leafless boughs
o'erspread;
In homage to her sovereign power,
Bright regent of each subject flower,
Low at her feet the violet bends its
head."

Many a pouting lip has flush'd
In rival beauty by thy side;
Many a maiden cheek has blush'd
In vain to match thy crimson pride.
The pink may burst its varied hue,
The violet its azure blue,
The lily claim the snow its own;
But still thou reign'st, undimmed,
alone."

"I love the Rose—it is a noble flower;
In color rich, and opulent of
leaves;
And when her summer garland
Flora weaves,
She sees no fairer beauty in her bow-
er,—
None which, so redolent of perfume
flings
A sweeter fragrance on the zephyr's
wings."

"I love the Rose—for bards have ever
loved
The queen of flowers—the flower of
beauty's queen,
When in the hedgerow or the garden
seen,
Or pluck'd and proffer'd, by some
friend belov'd,
To gentle lady, and by her caress'd,
Then braided with her hair, or worn
upon her breast."

WHAT THEY SAY OF US.

Please find inclosed check for \$1.00
for my yearly subscription to your
valuable paper, HORTICULTURE.—
G. A.

George W. Patten of Lowell, Mass.,
is seriously ill at a sanitarium. He
has had three shocks within a short
time and the Lowell lodge of Elks ad-
vised his removal where he could re-
ceive special care.

DEAN HOLE'S TRIBUTE TO THE
ROSE.

"He would who would have beauti-
ful Roses in his garden must have
beautiful Roses in his heart. He must
love them well and always. To win,
he must woo, as Jacob wooed Laban's
daughter, though drought and frost
consume. He must have not only the
glowing admiration, the enthusiasm,
and the passion, but the tenderness,
the thoughtfulness, the reverence, the
watchfulness of love. With no eph-
emeral caprice, like the fair young
knight's, who loves and who rides
away when his sudden fire is gone
from the cold white ashes, the cav-
alier of the Rose has semper fidelis
upon his crest and shield. He is loyal
and devoted ever, in storm-fraught or
in sunny days; not only the first upon
a summer's morning to gaze admir-
ingly on glowing charms, but the first,
when leaves fall and winds are chill,
to protect against cruel frost. As
with smitten bachelor or steadfast
mate, the lady of his love is lovely
ever, so to the true Rose-grower must
the Rose-tree be always a thing of
beauty. To others, when its flowers
have faded, it may be worthless as a
hedge-row thorn: to him, in every
phase, it is precious. I am no more the
Rose, it says, but cherish me, for we
have dwelt together; and the glory
which has been, and the glory which
shall be, never fade from his heart."
Dean Hole.

PROTECT THE BIRDS.

Shooting song birds is possibly an offence
against good taste, and inpolitic in a coun-
try afflicted with insect pests, but to pun-
ish it in the severest manner known to the
law seems absurd, especially when the of-
fenders are immigrants innocent of evil
intention. The New York judge who did
his sentimental worst for poor Italian la-
borers after keeping them hanging about
the courts for four months of suspense,
might very well have remembered who
said "Ye are of more value than many
sparrows."

This is the "sentimental worst" of
the Boston Pilot. It is also cant. The
fact is patent that shooting song birds
is the peculiar vice of the southern
Italian especially, who with his prac-
tice of picking up birds for his family
pot has made Italy a songless coun-
try. It is necessary to break his vi-
cious habit at the start, and every one
convicted of killing a song bird should
receive the severest sentence of the
law, in the interest of the preserva-
tion of the life of mankind upon earth.
It ill becomes an American newspaper
to speak of killing robins, bluebirds,
song sparrows, wrens, juncos, red
wings, bobolinks, as "possibly an of-
fense against good taste" and "im-
politic in a country afflicted with in-
sect pests." That is a jaunty way to
treat one of the most important mat-
ters of public concern. As for the
quotation from Jesus, its use is not
only cheap sentiment, but almost un-
pardonable cant. It is irrelevant to
the question of imposing an exem-
plary penalty on a bird killer. The
time to do that is precisely now, be-
fore the immigrant has bought an air
gun, takes to hunting secretly, and
brings home with him pockets stuffed
with bird corpses—which is then
practice wherever they are found.—
Springfield Republican.

TEN BEST CLIMBING ROSES.

Editor HORTICULTURE:

Would you kindly name the best ten
climbing roses for Massachusetts,
those best for pillar and trellis with
no wall protection so noted, and their
respective colors?

Thanking you for same, I am C. P.

Editor HORTICULTURE:

Dear Sir—In reply to your inquiry,
in the writer's opinion the following
named varieties are the best ten
climbing or rambler roses for pillar
and trellis with no wall protection:

Debutante, soft rose double.
Lady Gay, cherry pink, double.
Hiawatha, intense crimson, single.
Farquhar, pink, double.
La Fiamma, flamecolor, single.
Sweetheart, white, pink in bud, dou-
ble.
Dorothy Perkins, pink, double.
Wedding Bells, pink and white, dou-
ble.
Philadelphia Rambler, intense crim-
son, double.
Minnehaha, dark rose color, double.
Very truly yours,
M. H. WALSH.

TO EXTERMINATE THE CODLIN
MOTH.

On an Australian steamer which ar-
rived last week at San Francisco were
eleven cases consigned to the State
Board of Horticulture, each filled with
baby codlin moths. The codlin moth,
like the rest of its kind, has a natural
enemy, and, under normal conditions,
has little chance of becoming a pest.
When the codlin moth first arrived in
this country from the Antipodes it
found in the California orchards a
veritable paradise. There was food
galore and no enemy to thin the ranks
of the ravagers. The codlin moth grew
in numbers, appetite and audacity,
and the orchardists were in despair
when Professor Compere of the State
University Agricultural Department
discovered in Australia the tiny para-
site that was the codlin moth's natu-
ral enemy. A colony of these para-
sites was brought to this country. De-
tachments of them were turned loose
in moth-infected orchards, and under
their onslaught the codlin moth is
rapidly disappearing. A stock of
these parasites is always kept on
hand by the State Board of Horticul-
ture for use whenever the codlin
moth puts in an appearance. These
parasites will feed on nothing but cod-
lin moths. The available codlin moth
supply is getting scarce, and as the
work of the beneficial little parasites
has not yet been completed, the State
has imported from Australia eleven
cases of codlin moth larvae with
which to feed those parasites for
whom moth-infected orchards have
not yet been found.

PERSONAL.

James Glass of Baltimore met with
a painful accident at his home on the
14th inst., a half barrel of white lead
falling on his foot.

Fred. Sander and T. Mellstrom ar-
rived in New York on the Cunarder
Lucania from Liverpool. Mr. Mell-
strom succeeds to the position of
American representative for Sander &
Sons, formerly held by Mr. Dimmock.

NEWS OF THE CLUBS AND SOCIETIES.

AMERICAN ROSE SOCIETY.

Intending exhibitors at the annual exhibition in Boston, March 23-24, are requested to make prompt application for space, specifying the classes in which they propose to compete. Entry cards, schedules, etc., can be obtained from the secretary. All entries must be in by Thursday, March 22.

Those wishing to compete in the mantel and table decorations are notified that tables and mantels will be provided by the society for all who make definite entry by Tuesday, March 20. Tables will be of uniform size, limited to eight plates.

The Program.

We repeat the program of the meeting at Boston as published last week. A paper by Dudley M. Pray of the Eastern Chemical Company, Boston, on "Soluble Fertilizers" has since been added.

The annual meeting of the society will open at 7.30 p. m. on Friday, March 23.

The transaction of business will be in the following order: Calling to order; Reading minutes of previous session; Reports of standing committees; Reports of special committees; Miscellaneous business; Essays—Discussions; Election of officers; Appointment of committees; Adjournment.

Under the order of essays and discussions, addresses will be made as follows:

"Recent Advances in the Practice of Rose Growing for Cut Flowers," by J. J. Curran, Elmira, N. Y.

"The Retailer's Part in the Introduction of New Roses," by George Asmus, Chicago, Ill.

"The Mail Order Trade," by P. J. Lynch, West Grove, Pa.

"The Deterioration of Forcing Roses: Its Causes and Effect." A discussion, to be opened by A. Farenwald, Roslyn, Pa.

Question—Should the Rose Society Issue Certificates to New American Roses?

On Saturday evening, March 24, a banquet will be tendered to the American Rose Society visitors by the Allied Horticultural Interests of Boston, under the auspices of the Gardeners' and Florists' Club of Boston, at the Hotel Brunswick.

WM. J. STEWART, Sec.,
11 Hamilton Place, Boston.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The spring flower show of the Massachusetts Horticultural Society, which will open at Horticultural Hall, Boston, on Friday, March 23, promises to be one of the notable events of the present season.

In connection with it will be held the annual exhibition of the American Rose Society, which will afford a rare opportunity of witnessing the perfection of bloom and beauty attained in the cultivation of this queen of flowers by the principal growers throughout the country.

Other features of the combined ex-

hibition will be a magnificent display of spring flowering bulbs and Easter plants, together with Indian azaleas, orchids, and carnations. There will be in addition collections of winter apples and vegetables.

The schedule of the Massachusetts Society offers 210 prizes to the value of \$1200, in addition to medals, while the Rose Society's list aggregates 188 prizes, ranging from \$5 to \$250 each.

The exhibition will open on Friday, March 23, at 6 o'clock p. m., continuing Saturday and Sunday, March 24 and 25, from 10 a. m. to 10 p. m.

The Brookline Band of twenty-five instruments will give concerts on Saturday evening from 7.30 to 9.30 and on Sunday afternoon and evening from 3 to 5 and 7.30 to 9.30.

WM. P. RICH, Secretary.



J. F. HUSS
Judge at Boston Rose Exhibition

HARTFORD FLORIST CLUB.

The regular meeting of the club was held on Friday evening, 9th inst., President Huss in the chair. The annual election of officers took place, with the following result: President, J. F. Huss (third term); vice-president, Joseph Vidbourne; treasurer, Robert Scrivener; secretary, Alex. Cumming. President Huss exhibited two plants of a new type of Impatiens, introduced by Lemoine, and two fine specimens of the new hybrid Cineraria stellata, for which he was awarded a certificate of merit.

The club as a body recorded its regret at parting with its late efficient secretary, C. N. Ruedlinger. Mr. Ruedlinger has been appointed forester on a large estate near Minneapolis, Minn., and will leave for the West in a few days. As a proof of the esteem in which he has been held the club members and other friends presented Mr. Ruedlinger with a gold watch chain and appendage. He leaves Hartford with the best wishes of the entire horticultural community.

ALEX. CUMMING.

CHICAGO FLORISTS' CLUB.

The Chicago Florists' Club held its regular meeting in Handel Hall March 8, P. J. Hauswirth presiding.

The meeting was largely attended by members in and out of Chicago. The trustees reported they had leased the hall for another year, and re-leased it to the Retail Florists' Association for their meeting nights.

Mr. Wilson, chairman of the committee on exhibits, presented the report of the annual Carnation Show. A vote of thanks was extended to Hild Bros, for their fine vase of stocks.

Papers were read on carnations by J. D. Thompson and Jos. F. Klimmer.

After the reading of these papers preparations were made to attend the first annual convention of the Illinois State Florists' Association at Peoria, Ill., Friday, March 9.

The Carnation Show.

The annual Carnation Show held under the auspices of the Chicago Florists' Club, Thursday, March 8, while not so large as in former years, was far better attended than the exhibitions of the past two years. The exhibits which attracted the most attention were Seedling No. 49, grown by Chicago Carnation Co. of Joliet, Ill.; Robt. Craig, grown by Thompson Carnation Co. of Joliet, Ill.; Seedling No. 55, grown by Wietor Bros. of Chicago, Ill.; stocks of unusual size, fine flowers on stem 4 to 5 feet in length, grown by Hild Bros., private gardeners at Lake Forest, Ill.

Other exhibitors were: Chicago Carnation Co., Prosperity, Enchantress, Lieut. Peary, Glendale, Variegated Lawson, Fiancee, John E. Haines, Mrs. Patten, Skyrocket, White Lawson, J. A. Valentine, Lady Bountiful, Cardinal, Daybreak Lawson or Melody, Delight, Lawson, Imperial, Harlowarden; H. Luedtke, Maywood, Ill., Enchantress Sport; Fred Stielow, two seedlings, Belle, Lorna; Wietor Bros., White Lawson, Seedling No. 55, Fred Burki, Estelle, Harlowarden, Lawson, Lady Bountiful, Lieut. Peary, Enchantress, Nelson Fisher; Anton Then, Enchantress, White Lawson, Cardinal, Lawson, Lady Bountiful, Winnemac; Jensen & Dekema Carnation Co., Nelson Fisher, Walcott, Patten, Enchantress, Lawson, Boston Market; Chicago Rose Co., new rose, Miss Kate Moulton; Weiland & Risch, rose Killarney; R. Fischer, Great Neck, N. Y., Carnation Abundance, Freesia Purity; Geo. Field, Washington, D. C., new rose, Tom Field; Laisle Floral Co., Keokuk, Iowa, a creamy white rose which was pronounced a sport from the Bride.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next meeting of the club will be held at Horticultural Hall, Boston, on March 20. The lecture of the evening will be by David Lumsden, on "Plants and Bulbs Most in Demand for the Easter Trade." There will be other attractions, and none can afford to miss this meeting.

W. N. CRAIG, Secretary.

CINCINNATI FLORISTS' SOCIETY.

The annual exhibition of carnations given by the Cincinnati Florists' Society was held at the club rooms during the afternoon and evening of Saturday, March 10. The display was a magnificent one, and it is doubtful if there was ever its equal outside of the exhibitions of the national society. Here nearly all of the latest and best varieties from all parts of the country were viewed and admired by the florists and public as well.

Secretary Ohmer worked hard to make the show a success, and was agreeably surprised at the result of his efforts. The exhibitors were E. G. Hill Co., Richmond, Ind.; F. R. Pierson Co., Tarrytown, N. Y.; Honaker, Lexington, Ky.; George Beyer, Toledo; Miami Floral Co., Dayton; Weber & Son, Oakland, Md.; Heller Bros., New Castle, Ind.; W. C. Hill & Co., R. Witterstaetter, George & Allen, Huntsman & Co., Wm. Murphy, Thos. Windram and Frank Schneider. Two new varieties were up for certificates, but neither received the required 85 points. One worth mentioning was E. G. Gillett, a beautiful red, which scored 86 points in '95. This variety is grown by W. E. Hill of Clyde, O., and will be heard from later. The other one was Maybelle, grown by H. Weber & Son, which scored 83 points. At this meeting, the S. A. F. medals were awarded, R. Witterstaetter receiving the silver medal with Afterglow, and The Minneapolis Floral Co. the bronze medal with their new rose, Miss Kate Moulton.

The following is a list of the prize winners with varieties too numerous to mention: E. G. Hill Co., F. R. Pierson Co., Honaker, the Florist, H. Weber & Son and R. Witterstaetter. The F. R. Pierson Co. deserve special mention; considering the distance their flowers were shipped, they were in fine condition. Their display included White, Red, Variegated and Pink Lawson, and it is hard to say which was the best.

During the afternoon the out-of-town florists paid a hurried visit to some of our local greenhouse plants, and in the evening were entertained at a banquet given by the society at the Burnett House. Those present were: John Larsen, Wm. Hack, Henry Reiman, Homer Wiegand, E. A. Nelson, John Hartje, Sidney Smith, Fred Hukride, Wm. Billingsly and Irwin Berterman, Indianapolis; Herbert Heller, New Castle, Ind.; H. M. Altick, John Boehmer, Geo. Bartholomew, Dayton; E. G. Hill, G. R. Gause, John Evans and Geo. H. Fuller, Richmond, Ind.; Chas. Pommerd, Amelia, O.; Jno. Weber, Oakland, Md.; Wm. Reeser, Urbana, O.; O. S. Honaker, Wm. Gerlack, Lexington, Ky.; C. P. Dietrich, Maysville, Ky.; F. R. Pierson, Tarrytown-on-the-Hudson; Theo. Bock, Hamilton, O.; Mrs. Louis Koenig, Mrs. Sanford Link, Portsmouth, O.; C. H. Kingsman, J. Wettle, Louisville; and local members of the society, making 63 all told. President Wm. Murphy served as toastmaster, and the remarks of our guests were interesting and instructive. H. M. Altick, vice-president of the S. A. F. did not lose this opportunity to boom Dayton and urge all present to attend the coming convention. After dinner the regular monthly meeting of the society was

held. E. G. Gillett was appointed a committee of one to confer with the Fall Festival Committee regarding the floral exhibit.

COLUMBUS FLORISTS' CLUB.

The regular first meeting of the club for March was held Tuesday evening last in Iroquois Hall as usual. As the very important matter of packaging the flower and vegetable seeds, which had been procured from the Livingston Seed Company, for the school gardens was in order, a goodly number of members were present. It is the club's custom to purchase a sufficient amount of bulk seeds, to put up the required number of packets of flower and vegetable seeds needed for distribution to the scholars of our public schools. As it will take several evenings to complete this work, frequent meetings will be held until it is finished. A letter was received from Secretary William J. Stewart of the American Rose Society, inviting members to attend the annual meeting and exhibition of this society, to be held in Boston, March 22-26 next.



S. S. PENNOCK

Judge at Boston Rose Exhibition

ST. LOUIS FLORISTS' CLUB.

The St. Louis Florists' Club held its regular meeting March 8, with an attendance of twenty members. This being a rose meeting, the prizes were awarded to the following:

J. F. Ammann, first on Richmond, and first on Bride; W. J. and M. S. Vesey, first on Bridesmaid; A. Jablensky, second on Bride and second on Bridesmaids; H. J. Weber & Sons, first on Golden Gate. There was a vase of mixed roses exhibited by J. F. Ammann, not for competition; also a nice vase of Miss Kate Moulton, exhibited by Indianapolis Floral Co.

WORCESTER CO. HORTICULTURAL SOCIETY.

The Worcester County Horticultural Society (Mass.), held its first flower show of the season on March 1. The collection of orchids shown by George McWilliam, gardener for G. M. Whitin, was exceedingly fine. Leonard C. Midgeley of the Worcester Conservatories and H. F. A. Lange had special exhibits of roses.

ILLINOIS STATE FLORISTS' ASSOCIATION.

The first annual convention of the Illinois State Florists' Association was held at the City Hall, Peoria, Ill., with an attendance of seventy-five. Mayor Tolson gave the address of welcome, which was responded to by J. C. Vaughan.

The morning session was devoted to perfecting the organization and forming plans for the coming year; there was also a motion passed that the Association co-operate with the Experimental Station at Urbana, Ill. On invitation of the Peoria Florists' Club, the visitors attended a sumptuous dinner given in honor of the occasion.

The afternoon session was called to order at 2 P. M., then followed framing of the constitution and election of officers for the ensuing year. The officers are as follows: President, J. F. Ammann of Edwardsville, Ill.; first vice-president, J. C. Vaughan, Chicago; second vice-president, H. W. Buckbee, Rockford; third vice-president, John Willis, Danville; fourth vice-president, Albert T. Hay, Springfield; fifth vice-president, Oscar Augspurgur, Peoria; sixth vice-president, Jos. Heintz, Jacksonville; seventh vice-president, A. W. Webster, Centralia; secretary, Prof. H. Hasselbring, U. of C.; treasurer, Geo. A. Kuhl, Pekin, Ill. This body constitutes the Executive Board, to have jurisdiction of and represent the different districts.

Invitations were received from Bloomington and Springfield, inviting the association to hold their next convention in either of the two towns, but no place was decided on.

HUNTINGTON HORTICULTURAL AND AGRICULTURAL SOCIETY.

The Huntington Horticultural and Agricultural Society held its annual carnation exhibition on March 6, in the trade school building, Huntington, N. Y. There was a good display of carnations, violets and spring bulbous flowers. Awards were made as follows: Carnations, Dark pink: H. T. & A. H. Funnell, first with Lawson. Light pink: H. T. & A. H. Funnell, first with Enchantress; Geo. Ashworth, second with Enchantress. White: Geo. Ashworth, first, Wm. O'Hara, second. Scarlet: Cottage Gardens, first with Robert Craig. Crimson: J. D. Cockcroft, first with seedling; Cottage Gardens, second with seedling; H. T. & A. H. Funnell, third with Harlowarden. Any variety not disseminated: J. D. Cockcroft, first with seedling white; F. R. Pierson Co., second with Winsor; Cottage Gardens, third with seedling white. Assorted: J. D. Cockcroft, first; Wm. Eccles, second. Tea Roses: Jas. Kirby, first. Violets: H. T. & A. H. Funnell, first; Wm. O'Hara, second. Mignonette: Geo. Ashworth, first. Specimen flowering plant: H. T. & A. H. Funnell, first for Azalea; Wm. O'Hara, second for Baby Rambler rose. Special awards were given to R. Fischer, Great Neck, L. I., for Freesia Purity; to Robert Hillock for spring flowers; and to Geo. Ashworth for greenhouse vegetables.

The judges were William Donald and Walter Shaw.

Among visitors present was Wm. F. Ross, representing F. R. Pierson Co. There was a large attendance.

NEW YORK FLORISTS' CLUB.

Ladies' night, Monday evening, Mar. 12, was probably the largest attended meeting in the club's history, over two hundred being present, of whom fifty were ladies. Among the visitors were Messrs. Fred Sander and T. Mellstrom, Peter Crowe and Phil. Breitmeyer.

Mr. Nash's lecture was illustrated by beautifully colored orchid slides loaned by Mrs. Cornelius Van Brunt. Mr. Sander made a felicitous address. Songs were rendered by Mrs. J. P. Cleary, Miss Nugent, Rickard Bros., James Sage and others, all of whom did well; but to Mr. Sage must be given the laurel wreath for his "old-time" songs, which were the hit of the evening. The event certainly was a rousing success in every respect. Lager & Hurrell and Julius Roehrs Co. exhibited orchids; H. Metz, a basket of Asparagus Sprengeri, and Guttman & Weber, a vase of carnation Victory. The business of the evening was quickly disposed of. The secretary was instructed to write the members of Congress representing New York City, protesting against the "free seed" distribution by the government. Thirteen new members were elected and six proposed. Everything else except recreation was laid over for the April meeting. An ample supply of dainties for the ladies and solids for the gentlemen had been prepared by Mine Host Nugent and were distributed by that gentleman in his customary lavish manner. Dispersed about midnight.

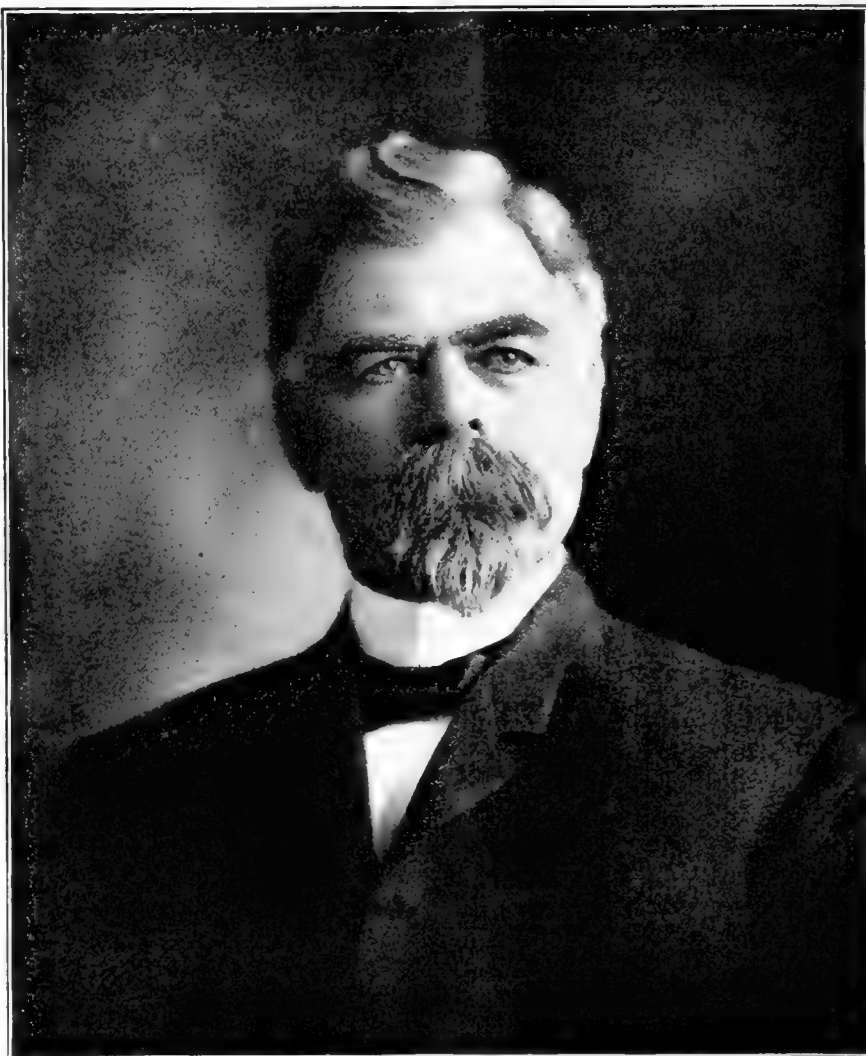
NASSAU COUNTY (N. Y.) HORTICULTURAL SOCIETY.

The regular monthly meeting of this society was held at the usual place on the 7th inst., President Harrison in the chair. The attendance of members was large, making a record for such. Five new members were elected to active and seven nominated to active membership; also two to honorary membership.

The chief business was the drafting of a schedule for the coming fall flower show. It is the earnest endeavor of the society to make this exhibition a thorough success. Some good prizes are already forthcoming. The silver cup by Mrs. Percy Chubb has been placed upon carnations, calling for 50 carnations in 6 varieties (standard) arranged for effect. Generous gifts as prizes have also been given by Mr. and Mrs. Maxwell, Weeber & Don, Stumpp & Walter, and Vaughan's seed store.

The floral exhibits by members at the meeting were many, diverse, and highly interesting, showing throughout superb cultivation. Alex. Mackenzie staged a lovely table containing a vase of mixed carnations, bunch of Princess of Wales violets, a beautiful pan of white hyacinths, vase of roses, pots of cyclamens, Primula stellata, Forbesii, and a gorgeous collection of Primula obconica, all being exceedingly well grown and of beautiful colors; also some fine bunches of greenhouse tomato, Stirling Castle being the variety. S. J. Trepass staged an equally beautiful table of cut

ALEXANDER MONTGOMERY.



President of the American Rose Society.

flowers, flowering and foliage plants. He had a fine vase of mixed carnations, also pots of cyclamen, cineraria, Primula obconica, and a grand pan of yellow tulips. F. F. Meyers had on his table some good carnations, a nice flowering bush of white lilac, and some superb spikes of antirrhinums. H. Matz showed a well-grown pan of Asparagus Sprengeri. F. Mense had a lovely bunch of one hundred Princess of Wales violets.

The Mackenzie prize for the best flowering plant was won by T. Harrison with a basket of Begonia Gloire de Lorraine, which was the admiration of all present.

S. J. Trepass' new seedling carnation, "Maxwellton," a grand white, with Lawson blood, received the society's certificate of merit, scoring 87 1-2 points.

F. R. Pierson Co., Tarrytown, showed a vase of their grand new carnation, "Winsor."

JOHN F. JOHNSTON.

DETROIT FLORISTS' CLUB.

This club met on March 7 and had an interesting session. Talks on forced circulation by Mr. Dodson, and on hot water heating by Mr. Taylor,

were on the program. The latter gentleman read some letters which he had received from a Cleveland firm, but seemed unfamiliar with the points on which they touched. Although he spoke of a saving in fuel to the extent of 20 to 25 per cent., he was at a loss to demonstrate the cause of such. He submitted the diagram to Mr. Dodson for explanation, who, after a few minutes' reflection, called for a blackboard. He then went on to show the workings of the system to which he did full justice.

After the several discussions on Mr. Taylor's system, Mr. Dodson took the floor in his own behalf, explaining the use of the pump in promoting circulation. The ordinary hot water system being based entirely upon gravity as the circulating force, is often too slow in movement to ensure uniform or economical heating. The best way, according to Mr. Dodson, to overcome this is to assist gravity by use of a pump, which hurries the circulation so as to allow a drop of not more than 20 per cent. in the temperature of the return water.

The kind of coal more suitable for firing was another topic taken up, the majority being in favor of soft coal.

Speakers made general use of the blackboard in explaining their piping systems and boilers, and it seemed more like a plumbers' or steamfitters' meeting than a florists' club.

During the evening the president called on Harry von Koolbergen, a traveling salesman from the land of azaleas, who in a brief talk described some methods in use by his countrymen.

Watering systems will be the topic at a future meeting and demonstrations will be made at a local greenhouse.

B. Schroeter and his son have been asked to address the next meeting on the handling of holiday plants.

GARDENERS' CLUB OF BALTIMORE.

The annual meeting and election of officers of this club was held on Monday p. m., March 12, at the Hotel Lexington. The following officers were elected: President, W. G. Lehr; vice president, Chas. L. Seybold; secretary, J. J. Perry; financial secretary, G. Talbot; treasurer, F. G. Burger; librarian, C. M. Wagner. A banquet was held in the dining room of the hotel and was participated in by one hundred guests. E. A. Seidewitz acted as toastmaster. Responses were made by John Burton, D. T. Connor, G. O. Brown, Robert Craig and others. J. E. Haines displayed a number of his seedling carnations.

CLUB AND SOCIETY NOTES.

The April meeting will be Rose Night at the New York Florists' Club.

The Kentucky Society of Florists held its regular meeting on March 7 at J. E. Marret's, with a good attendance.

The Hartford Florists' Club is contemplating the merging of that body with the Connecticut Horticultural Society. A conference committee has been appointed with that object in view and consolidation is looked on favorably by both organizations.

The executive committee of the Society of American Florists and Ornamental Horticulturists has certainly shown its high appreciation of the Gem City, and their national convention in Dayton will surely be made a notable occasion.—Dayton Journal.

The Flatbush Florists' Bowling Club had a prize contest last Thursday. Pres. John Scott of New York Florists' Club won the first prize, a tobacco jar; and J. Austin Shaw, the second, a silver inkstand. The latter was put up again and was won by Henry Daille-douze. There were eleven competitors.

At a meeting of the florists at Dayton, Ohio, on Monday, March 12, the Dayton Florists' Club was organized and officers elected as follows: President, J. B. Heiss; vice-president, Charles Lutzenberger; secretary, Horace M. Frank; treasurer, H. H. Ritter. Horace M. Frank was recommended by acclamation for the position of superintendent of S. A. F. trade exhibition.

MECHANICAL WATERING FOR GREENHOUSES.

(Read before the Detroit and Washington Florists' Clubs by Louis Wittbold.)

It is only a short time ago that all watering in greenhouses was done with the watering can and those of us whose fathers and grandfathers were gardeners before us, can well remember how these gentlemen condemned the hose when it was first used for greenhouse watering. They argued that the hose would drown everything in sight and that it would be impossible to give individual care to the plants except by watering individually with the can. The world has made progress and the old fellows have gradually given in to the younger generation until our fathers had the privilege to do some of the watering with the hose and some with the can; they had to help out, as it were, with the old stand by (the can) to make good for the mistakes of the hose.

The world has made still further progress and we the present generation have as a rule discarded the can entirely and have outgrown or overcome the habits of our fathers and grandfathers and are using the hose entirely for all watering in the greenhouse. Looking back at our predecessors we smile and pat each other on the back and feel our superiority to such a degree that we generally find it necessary to go out and buy a size larger hat.

Let's not be too hard on the old fellows but let's give them due credit for the advancement they accepted and allowed us to accept. We are little if any quicker than they to accept new ideas and our present advancement has only come about through the general evolution of things.

The world is progressing; the day of the hose for greenhouse watering will come to a close, just the same as the can is fast saying good-bye to all modern places—in fact many of them could probably not boast the possession of one, especially not one such as grandfather had that carried about a gallon of water, with a spout three feet long and which was just the thing for the boys to use as a brass band to march around the greenhouse with.

Mechanical watering is the next step in the chain of progress, which will revolutionize the present mode of watering and which will probably undergo the same evolution of adoption and rejection until its superiority is as firmly established as that of the hose over the can. How long would it take to water and syringe a large modern place with a can and a hand syringe and could the job be done as well as with a hose? We answer this question with a smile but could we get hold of some of the old fellows who have long since passed away we could get up a pretty good argument and it would take years of time before they would accept our idea. We do not know exactly how long it would take to water and syringe a given number of square feet with a can, but there is no necessity to try to find out, as the time consumed is so long that we could not afford to adopt so expensive a method to do our work. How long does it take to water a given number of square feet with a hose? This is the age of hose and I will let every one answer the question for himself, as we are all

familiar with its use and results. How long would it take to water a given number of square feet with a watering system is a question that can be answered by another question. How much water is your system or pump able to supply? A system of this kind will take all the water instantly that a pumping system will supply.

The world is making progress and, as only better things than what we have had before help in the grand march of progressive advancement, mechanical watering will surely use up several links in this chain after its benefits are fully realized by brother florists.

BUSINESS CHANGES.

C. B. Service has opened a retail store at 3 Shenango St., Sharon, Pa.

Fisher & Rocklin have opened a retail store in the Boudeman block, Kalamazoo, Mich.

R. G. Wilson of Brooklyn will do a wholesale and retail business at 48 W. 30th street, New York.

The business of the Chatham Rose Co., Chatham, N. J., has been purchased by H. A. Neuner.

J. H. Brown has disposed of his business at Sebring, O., to J. H. Hall, and has bought a larger plant at Salem, O.

Herendeen Manufacturing Company's New York office has been removed from 39 Cortlandt street to 296 Pearl street.

E. W. Comley has joined his brother George A. in business in Washington, D. C., and the firm will hereafter be Comley Bros.

W. McRae Thompson has resigned as manager of the Acker Flower Shop, of Philadelphia. John Kraus from New York succeeds to the position.

E. E. Fairbanks of Athol, Mass., has sold his house and greenhouses to Clifford H. Smith. The houses are well stocked with cucumbers, which are valued at \$3000.

H. R. Mitchell, senior member of the firm of The H. R. Mitchell & Son Co., of Waterville, Me., has disposed of his interest in the business to George Fred Terry. The firm hereafter will be Mitchell & Co. It is said that additional greenhouses and a retail store on Main street are among the improvements contemplated.

PLANT NOTES.

The advance sale of geraniums indicate a very heavy demand for the coming season.

Plant dealers report the sales of begonias in all classes and species this season as far ahead of any recent year.

There is a divergence of opinion among rose forcers as to whether Killarney gives best results as own root or grafted plants.

Frau Lilla Rautenstrauch, one of the newer roses, said to be a cross between Goldquelle and Caroline Testout, is being looked upon with much favor in England as a forcing rose. The flowers are flesh white flushed with apricot yellow.

THE ROSE.

(A paper read before the Pittsburg and Allegheny Florists' and Gardeners' Club by Neil McCallum.)

The rose has been immortalized by the most ancient authors. Homer's allusion to the rose in the Iliad and Odyssey are among the earliest mentions we have. Mr. Paul, in his Rose Garden, gives a translation from the Greek Poetess Sappho, who lived 600 B. C. It is:

"Would Jove appoint some flower to reign
In matchless beauty on the plain,
The Rose (mankind will all agree),
The Rose the queen of flowers should be."

Historians tell us that those luxurious persons, Cleopatra and Nero, spent immense sums of money for roses and rose petals to strew on the floors and seats of their banquet halls. Pliny, also, tells us that it is necessary to move the earth to a depth of two feet in their cultivation. Coming down to modern times, Dr. Lindley says the Pharmacopean could be formed of the rose family alone; and Sir R. Christison tells that it takes 100,000 roses, the produce of 10,000 bushes of the Damask rose, to yield 180 grains of attar of roses. The Damask rose is parent of the hybrid red roses of today; it was brought to Europe from Syria by one of the Crusaders returning from the Holy Wars.

Roses will do fairly well in almost any soil, providing it is not a wet or a loose, sandy one; of course, the ideal soil is a deep, strong loam and a sheltered position with an exposure to the morning sun, shaded from the fierce rays of the noonday sun. A stiff clay land can be helped by draining and working in long stable manure, decayed leaves, sand and ashes and a sandy or gravelly earth by the addition of cow manure, clay or stiff loam, but any ground which will grow good cabbage will also grow good roses.

The best season for planting the hardier roses is the late fall, but the more tender teas should be left until early spring. It often happens when you unpack your roses from a distant nursery that you discover the bark all shrivelled; it is a good plan to bury them completely at least six inches below the surface, give the ground a good soaking and leave so for a couple or three days to plump up again. In planting budded, or grafted plants, the point of union should be at least two inches below the surface, so that they may eventually become own root plants. In pruning, first cut out all decayed, crowded or weak growths, then shorten back as required, observing the rule that delicate and weak growers should be pruned severely, and strong and vigorous growers pruned very lightly. The rose chafer is a trou-

WELLESLEY.



blesome pest when he comes, as hand picking and destroying by coal oil, fire, or crushing is the only remedy for him; for other insects a solution of whale oil soap applied with a syringe will prove effectual in ridding the plants.

There are many ways in which roses can be used to produce decorative effects outdoors, as dwarf plants in beds, as climbers on walls, porches or arches, as pillars, in large isolated clumps, as a hedge or dividing line, as an edging to other shrubs, or to carpet banks and slopes.

Take, first, roses as dwarf plants in beds, such varieties as:—Hermosa, Marie Van Houtte, Madame Lambert, La France, Homer, Malmaison, Perle des Jardins, and the old Agrippina are better than the stronger H. P.'s, which are good as masses, such sorts as Baroness Rothschild, Mabel Morrison, Merville de Lyon, Rev. J. B. Cram, Louis Van Houtte, Mdme. Gabriel Luizet, Alfred Colomb, Marshall P. Wilder, Marie Baumann, Margaret Dickson, Gloire de Margottin, Fran-

cois Michelin, Fisher Holmes and Mrs. John Laing being glorious during their flowering season.

The Rugosa hybrids are grand and useful roses for hedges or screens, lovely in foliage, flowers and fruit, and hard as nails in constitution. The Wichuraiana and its hybrids are splendid as edgings and to cover banks or ugly places. The Rambler varieties, with Prairie roses and climbing Hybrid Remontants and Teas, like Rene Marie Henriette, Gloire de Dijon, W. Allen Richardson, Jules Margottin, Glory of Cheshunt, Victor Verdier, Bessie Johnson are magnificent as pillar roses, on arches, walls, or porches. Dean Hole says we should have in our gardens, "Beds of roses, bowers of roses, hedges of roses, pillars of roses, arches of roses, fountains of roses, basket of roses, vistas and alleys of the rose."

OUR COLORED PLATES.

We have a few extra copies of the colored plates sent out with recent issues of HORTICULTURE, any of which will be sent in tubes, post paid, to applicants at ten cents each.

RED AND DARK-RED HYBRID TEAS.

Translated by G. Bleicken.

An article on recent introductions in this class of roses is contributed by Fr. Harms, Hamburg, in Moller's Deutsche Garten-Zietung.

After referring to the two noted roses introduced by Henry Bennett, Wm. Francis Bennett (1885) and the Meteor (1889), Moreau's La France of '89, and others of the same strain, down to Gruss an Teplitz (1898), Lambert's Balduin (1889), Dickson's Liberty (1900) and the 1902 introductions of Paul and Jacob, and the 1903 and 1904 introductions of Hill, the writer comes to the conclusion that "with the introduction of Liberty, Bennett's work has been taken up again," and that the "Hybrid Perpetuals must of necessity give way to the Hybrid Teas in the future."

Of Richmond (Hill, 1905) he says: "Richmond was selected by the raisers as best of its kind among 10,000 seedlings, one of its best qualities of superiority to Liberty being its strong growth. It flowers as freely as Catherine Mermet, the flowers being sufficiently large, well-built and very fragrant, and the foliage noble. How strong a growth the plant is capable of in the open ground, I observed on some grafted stock which I got from my business friends, A. Dickson & Sons (the raisers of Liberty); they made growth in no way inferior to the strongest perpetuals. . . . Not only is Richmond superior to Liberty, but as a matter of fact, it is without doubt

the greatest advancement in this class of roses up to the present date. . . .

HOUSE OF AMERICAN BEAUTY AT SCARBOROUGH, N. Y.



F. R. & P. M. PIERSON ESTABLISHMENT

HILL SEEDLING, A1.



Nevertheless, we should not lose sight of other good introductions of late which deserve honorable mention."

Then follows the description of the other two great rivals of Liberty, namely:

Etoile de France (Pernet-Ducher, 1904), very much liked by European growers, and General MacArthur (Hill, 1905), with descriptions and cultural notes on each.

Other valuable introductions mentioned are:

George Laing Paul (Soupert & Notting, 1904); Gruss an Sangerhausen (Dr. Muller, 1905); Cherry Ripe (Paul & Sons, 1905); Crimson Crown (A. Dickson & Sons, 1905), bearing six to seven flowers on every shoot; J. B. Clark (H. Dickson, 1905); Charles J. Graham (A. Dickson & Sons), certificated by the R. H. Society; Baron v. Pallandt (Welter, 1905); and Grossherzog v. Oldenburg (Welter, 1904).

"Those mentioned are about all the first-class red and dark red Hybrid Teas up to date, but let us hope that more good introductions will soon follow them."

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For Exhibition Awards, Sporting
Events, etc.

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FROM THE BEST MANUFACTURERS AND
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LAWRENCE, MASS.

Visiting Florists

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ROSE WEEK

CORDIALLY WELCOMED

JULIUS A. ZINN
2 BEACON ST., - - BOSTON

QUEEN BEATRICE

NEWS NOTES.

William Plumb has opened business in New York City as a landscape architect.

E. A. Seidewitz has sold his greenhouses at Arlington, Md., and will build at Mt. Washington.

Richard Nofftz of New Bedford, Mass., is about to open a flower store in the business section of the city.

Eugene Fairbanks has sold his greenhouses and residence at Athol Centre, Mass., to C. H. Smith, who takes possession about May 1.

Ellwanger & Barry of Rochester, N. Y., have been awarded a contract by the Massachusetts Highway Commission for the supplying of 4000 trees, the contract price being \$999.

An overheated pipe extending from the boiler in the greenhouse of K. E. Juul of Elizabeth, N. J., caused a slight blaze on the morning of March 5, but it was extinguished quickly and little damage was done.

The trustees of Pine Banks Park, Malden, Mass., state that 400 pine trees have been killed by the ravages of the brown tail and gypsy moths, and if the remaining trees in the park are to be saved, several thousand dollars must be spent.

In the school of landscape gardening and horticulture for women established at Groton, Mass., by Mrs. Edward Gilchrist, pupils will be taught landscape architecture, floriculture, drawing and garden designs, surveying and engineering, in addition to botany. The course will be two years.

A book on Arboriculture by John P. Brown is in preparation and will soon be published if encouragement is received. It will treat on How to plant and grow a forest; Trees which may

be grown in our generation to a profit; A text book for railway engineers; Economic forestry in all its branches.

Through the recent death of Edwin Gilbert of Georgetown, Connecticut Agricultural College at Storrs comes into possession of his farm of 350 acres and \$60,000. A horticultural building, a range of greenhouses and a modern dairy building are among the immediate necessities of the college and this gift is therefore opportune.

The Canadian Geological Survey report that entire tracts of grand white pine in Temagami region in Ontario are being destroyed in a mysterious way. The leaves of the trees have turned to yellow or to a deep brownish red color. In some cases the entire tree is thus affected, in others the disease appears only in patches. The cause and possible remedy for this attack will be at once investigated.

Arrangements are being made by the agricultural colleges of New Hampshire, Vermont and Massachusetts to equip a railroad train with apparatus and specimens illustrating advanced methods of spraying trees, testing seed, destroying noxious insects, fertilizing fields, etc., for the benefit of the farming and market gardening interests. It will start about April first on a tour of those states, stopping at convenient points for exhibits and lectures. Demonstrators will accompany the train.

The Improvement Society of Helena, Mont., are planning a park which will, if successful, serve as an object lesson in forest planting. Nine hundred acres are set aside for their purpose, 140 of which are covered with young timber, and on 400 more some timber is growing. The remainder will be planted with trees adapted to the semiarid conditions of the country, and later on the trees will be cut for timber. It is estimated that 575,000 trees will be required, and to provide them a special nursery will be started.

CUT FLOWER MARKET REPORTS.

Business in the
ST. PAUL AND Twin Cities is very
MINNEAPOLIS quiet just now, as
it must also be

elsewhere, on account of Lent; however, indications are that the Easter trade will more than make up for what is lost during Lent.

Bulb stock this year is better than ever before. Tulips, hyacinths, narcissi, daffodils and lily of the valley are plentiful and in fine condition, and sell more readily than anything else on the market. Violets have had a very heavy trade and the supply is not yet exhausted. Right here it might be said that Hans Rosacker of Minneapolis carries the banner for the large single violets, the Princess of Wales. The greenhouses of both cities are in good trim and well stocked for Easter. Beside the good supply of roses and carnations, sweet peas, forget-me-nots, mignonette and green stock are coming on nicely. A Japanese holly hock in full bloom attracted considerable attention in the windows of The Rosary, recently. The plant was grown at the Wessling greenhouses, and was the first one of its kind ever seen here. It was a beauty while it lasted, but proved to be very frail and shortlived when taken out of the greenhouse.

The supply of carnations has been a little
LOUISVILLE short the past week;

roses have maintained their standard of excellence, and there have been enough for all demands. Violets and forget-me-nots sold unusually well; mignonette and lily of the valley have a limited call, but there should be improvement in these lines. Tulips, jonquils and other bulbous stock have been equal to the demand.

RAMBLERS Home-Grown Plants

PHILADELPHIA RAMBLER

5 to 6 ft. \$3.00 per doz.; \$20.00 per 100 4 to 5 ft. \$2.25 per doz.; \$15.00 per 100
3 to 4 ft. 1.75 12.00 2 to 3 feet 1.50 10.00

CRIMSON RAMBLER

4 to 5 ft. \$2.25 per doz.; \$15.00 per 100 3 to 4 feet \$1.75 per doz.; \$12.00 per 100
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SHRUBBERY SPIRÆAS—Van Houttei, A. Waterer, Blue and Prunifolia. DEQUIZIAS—Lemoinei and Gracilis. SNOW-BALLS—Plicatum and Opulus. WEIGELIAS—Rosea, Floribunda, Candida, Variegated. ALTHEAS—Double White, Violet and Red. California Privet Berberis Thunbergii, Hydrangea Grand.

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The Cottage Gardens

Contain the finest assortment of selected specimen Evergreen, Deciduous Trees and Shrubs procurable, and its Landscape Department is at your service in arranging them. Price list ready now. Has tables of the best herbaceous plants, giving common and botanical names, height, color and season of bloom. Sent free. All inquiries cheerfully answered.

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NORWAY MAPLE, SPECIMEN TREES, 16 TO 18' 2½ TO 3" DIA. JAPAN MAPLE, 2 TO 3' ASSORTED VARIETIES. ORIENTAL PLANE, SPECIMEN TREES, 16 TO 18', 2½ TO 3" DIA.

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RHODODENDRON MAXIMUM, FINE COLLECTED PLANTS, 2 TO 8'. DWARF BOX FOR EDGING, 3 TO 5" AND 4 TO 5" VERY BUSHY. RHODODENDRON HYBRIDS, BEST HARDY VARIETIES. WRITE FOR PRICES AND CATALOGUE.

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All stock guaranteed disease free and true to name.

Hart Pioneer Stock is pure bred and produces heavy crops.

Value received for every dollar sent us. No Agent's Commission.

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CALIFORNIA PRIVET.

A large stock of two and three year old (transplanted), from 12 inches to four feet well finished plants at very low prices for quality of stock. Get my prices before purchasing. Satisfaction guaranteed. Address,

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Our stock of this most valuable ground cover is unsurpassed. We send out strong clumps, not single plants—and thus produce an effect at once. Write for catalogues.

EASTERN NURSERIES, M. M. Dawson, Mgr., Jamaica Plain, Mass.

QUEEN BEATRICE

NEXT WEEK'S ISSUE will be filled with valuable matter on ornamental trees, shrubs and hardy plants. Dealers in this class of material should advertise in it. Copy should reach us by Tuesday, March 20.

OBITUARY

George Norman.

A familiar figure at the Royal Horticultural Society's shows has passed away in the person of Mr. George Norman, V. M. H., who for 30 years had held the post of head gardener at Hatfield House, the residence of Lord Salisbury. The post was one of honor and responsibility, for the gardens at Hatfield House are amongst the most famous in Great Britain. More than 200 years ago Pepys described their manifold charms, and earlier still a foreigner who paid a visit there recorded his opinion that in the Hatfield Gardens he had seen one of the most beautiful spots in the world. The celebrated Lime Walk, the Elizabethan Priory garden, the famous mulberry trees planted by King James, and the maze with hedges of yew, are some of the special features which attract the visitor. Some important work has been carried out by Mr. Norman. "My primary aim," he once said, "is to keep up the character of the gardens, making experiments as circumstances require, in accordance with modern developments, but preserving the ancient features in whatever changes are made." In addition to superintending the extensive grounds Mr. Norman was responsible for the extensive decorative work on the occasion of the royal visits to Hatfield House. He was a first-class gardener, with a perennial geniality which endeared him to a wide circle of friends. At the interment, on March 5th, many attended to pay a tribute to his revered memory. W. H. ADSETT.

Henry Knott.

Mr. Henry Knott, whose death occurred at Cape May, N. J., on Tuesday, March 6, had spent nearly all of his life in the business. He established himself in Cape May as a commercial florist in 1876 and by energy and hard work built up a nice business and did much to improve and beautify that celebrated summer resort. He retired from active work eight years ago. Mr. Knott was one of the worthiest and most respected citizens, and during his years of business life made many warm friends. He had been ill only four weeks and his death was as his life, beautiful, calm and peaceful. He was 85 years of age, a native of Ireland. All of his life almost has been spent in the United States. He leaves a daughter and one son, who carries on the business.

James Clark.

James Clark, familiarly known as "Boss" Clark, who for thirty years was an employe of the U. S. Botanic Garden, died at his home at White Oak, Md., on March 8. He was a man

of exceptionally fine character and temperament, numbering among his intimate friends many high in official life at the national capital. Mr. Clark was the hero of the following story published in the Washington Star some twenty years ago:

"In the northern division of the conservatory in the botanic gardens there is growing a fruit tree known to the beathen Chinese as 'Leechee.' Just before the assembling of this Congress, it had a goodly quantity of its curious-looking, very agreeable fruit on it, which was watched with interest by the Highland Scot from the land of Argyle, in whose care it had flourished for many a year. The said Caledonian has all the demure gravity in externals of the great chief himself. Having been taught to articulate in the language of Ossian, and speaking no other till an adult, he has never fairly mastered the language of the Sassanach, but speaks it slowly with a peculiar emphasis. While passing around in the performance of his duties he discov-



THE LATE F. W. RITTER.

See obituary, March 3.

ered two well-dressed men stealing the leeches and eating them. With uplifted hands he exclaimed, 'Gude gracious are ye eating thae poisonous fruit?' In an instant the hands of both were on the place the fruit had gone to. The door being open the race of the pair to Dr. Hickling's, the nearest drug store, there to be relieved, was a rapid one, to say the least. Some delay occurred at the start by one of the outdoor hands ordering them off the grass. Relief could have been obtained easier had they looked over their shoulders and seen the shaking sides of the canny Scot as he watched the race. Sidney Smith might have learned that something less than a surgical operation was necessary to get a joke out of the head of a Scotsman."

J. C. Rennison.

J. C. Rennison died at his home in Sioux City, Ia., on February 24, aged 67 years. His death was the result of a fall on the icy sidewalk which he sustained a week previous, but which had not been regarded as causing any serious injury. Mr. Rennison was a

native of New York State, but has been a resident of Sioux City for 23 years, where he built up a prosperous florist business. He joined the Society of American Florists in 1887 and served as State vice-president for Iowa in 1888 and on the Executive Committee in 1894-5-6. He was a constant attendant on the conventions of the society, where by his congenial and cheerful temperament he made many warm friends.

J. C. Gardiner.

J. C. Gardiner of San Francisco, a veteran of the Civil War, a member of Lincoln Post, G. A. R., of this city and employed as head gardener and landscape chief on the government's Mare Island reservation near the city, and very well known to the trade of San Francisco and universally respected, was suddenly stricken by death on the afternoon of March 4 while in the chaplain's house kneeling at prayer.

Ferdinand Boulon.

Ferdinand Boulon, died at Sea Cliff, N. Y., on March 6, aged 65 years. Mr. Boulon came to this country in 1881 after a thorough training and experience in his native country, France, in all branches of horticultural and landscape work and was accounted one of the best informed gardeners in America. He started the establishment at Sea Cliff twenty years ago and his son has been a partner with him for the past two years.

Henry C. Beebe.

Henry C. Beebe of Middletown, Conn., died at his home on Ferry street on March 6 after a lingering illness. He was 57 years old.

The sorrow that has come to the home of Frank L. Moore, Chatham, N. J., in the sudden death of his oldest son, will call forth sympathy from the trade. The young man was a student in Columbia University, a fine scholar and had a promising future.

Commencing with this issue, our readers will notice the advertisement of the Hart Pioneer Nurseries of Fort Scott, Kas. This is an old established firm, having organized their business in a small way in 1865, until at the present time their nurseries comprise over 600 acres and is one of the largest in the west.

They advertise their stock to be strictly first-class, pure bred in every respect and guaranteed true to name.

All of our readers who contemplate planting Nursery stock of any kind this spring, will do well to drop a card to the above firm, asking for their wholesale catalogue. And you will do us a favor if you will kindly mention the name of this paper in writing to them.

Grafted on Dickson

One of the most careful and experienced rose grafters in this vicinity has commissioned me to dispose of the following small surplus of young grafted roses:

	per 100	per 1000
3000 Maids	\$12.00	\$120.00
3000 Brides	12.00	120.00

Every plant guaranteed perfect and grafted on the genuine Dickson Manetti. I was after some of this party's stock last year but could not get a look in.

DON'T NEGLECT THIS OPPORTUNITY

If you are after \$90 kind this offer will not interest you. This is genuine Dickson and grafted by a master workman.

Also 4000 fine plants of

Chatenay

Own root; grown by John Burton and ready for delivery from now on; \$5.00 per 100; \$45.00 per 1000. These are better than Western stock and worth a great deal more. Chitenay is rapidly growing in favor as a profitable Summer Rose.

G. C. WATSON
1614 Ludlow St., Phila.

You Will Want a Few Begonia Gloire de Lorraine Plants.

My stock comes from an Excellent Source. Why not place your order early to secure June and July delivery?

Strong 2½ in. plants, \$15 per 100, \$140 per 1000
S. S. SKIDELSKY

824 No. 24th Street, - Philadelphia

SALVIA FIREBALL

2½ inch per 100 . . .	\$2.50
3 " " " " . . .	4.00

The above is in fine shape, and will give you a quantity of cuttings at once. Write for list of Geraniums and other bedding stock.

GEO. L. MILLER CO., - Newark, Ohio

USEFUL BOOKS.

MANUAL OF THE TREES OF NORTH AMERICA (Sargent); 826 pages, 644 illustrations; \$6.00.

THE HORTICULTURISTS' RULE-BOOK (Bailey); 312 pages; illustrated; 75 cents.

THE DAHLIA (Peacock); revised edition; 30 cents.

CHRYSANTHEMUM MANUAL (Smith); 120 pages; illustrated; 40 cents; revised edition ready April 1.

THE CHRYSANTHEMUM (Herrington); 50 cents.

HOW TO MAKE MONEY GROWING VIOLETS (Saltford); 25 cents.

THE FIRST COUNTY PARK SYSTEM (Kelsey); 300 pages; illustrated; \$1.25.

A MANUAL ON THE PROPAGATION AND CULTIVATION OF THE PAEONY (Harrison); illustrated; 30c.

THE AMERICAN CARNATION, by C. W. Ward, is a book every grower of that flower should have in his library. Price \$3.50.

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HORTICULTURE PUBLISHING CO., 11 Hamilton Pl., Boston.

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A New Rose OF Sterling Merit

Color—A beautiful light pink.

Shape—Like Richmond, but fuller.

Size—Larger than Richmond.

Foliage—Dark, heavy as American Beauty.

Growth—Vigorous, producing strong bottom shoots.

Blooming—Steady; not a cropper.

Free from Mildew and has never yet been affected by Black Spot. Best Temperature 55° to 58° night. Shown at the leading flower shows where it has received high praise, especially for its unrivalled keeping qualities. **Miss Kate Moulton is a winner and has come to stay.** We have a limited supply of plants which we are offering from 2 1-2 inch pots, at the following prices:

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Store Closes 8 P. M.

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	CHICAGO		ST. LOUIS		PHILA.		BOSTON	
	March 12		March 12		March 12		March 15	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	35.00	to 40.00	25.00	to 35.00	50.00	to 60.00	to 50.00
" Extra.....	25.00	to 30.00	15.00	to 20.00	25.00	to 35.00	30.00	to 40.00
" No. 1.....	8.00	to 12.00	10.00	to 12.50	12.50	to 15.00	15.00	to 25.00
" Lower grades.....	.....	to 10.00	4.00	to 8.00	6.00	to 8.00	3.00	to 8.00
Bride & 'Maid—Fan. & Sp.....	10.00	to 12.00	.....	to 10.00	.....	to 12.00	0.00	to 8.00
" Extra.....	6.00	to 8.00	6.00	to 8.00	10.00	to 12.00	6.00	to 8.00
" No. 1 and Lower grades.....	4.00	to 5.00	4.00	to 5.00	4.00	to 8.00	3.00	to 5.00
Liberty, Fancy.....	10.00	to 12.00	.....	to 10.00	20.00	to 25.00	12.00	to 25.00
" Ordinary.....	6.00	to 8.00	.....	to 10.00	8.00	to 10.00	4.00	to 8.00
Richmond, Fancy.....	1.00	to 12.00	8.00	to 10.00	20.00	to 25.00	20.00	to 30.00
" Ordinary.....	6.00	to 8.00	4.00	to 6.00	10.00	to 12.00	8.00	to 12.00
Golden Gate, Fancy.....	10.00	to 12.00	4.00	to 8.00	8.00	to 10.00	6.00	to 8.00
" Ordinary.....	4.00	to 8.00	4.00	to 5.00	4.00	to 6.00	2.00	to 4.00
Chatenay, Fancy.....	10.00	to 12.00	5.00	to 10.00	12.00	to 15.00	6.00	to 8.00
" Ordinary.....	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00	3.00	to 5.00
CARNATIONS								
Fancy.....	3.00	to 4.00	.....	to 3.00	3.00	to 4.00	2.00	to 3.00
Ordinary.....	2.00	to 3.00	2.00	to 2.50	2.00	to 3.00	1.00	to 2.00
MISCELLANEOUS								
Cattleyas.....	35.00	to 50.00	.....	to 12.50	12.50	to 15.00	8.00	to 12.00
Lilies.....	10.00	to 20.00	10.00	to 12.50	10.00	to 12.50	8.00	to 12.00
Callas.....	10.00	to 15.00	10.00	to 12.50	10.00	to 12.50	8.00	to 12.00
Lily of the Valley.....	2.00	to 3.00	.....	to 3.00	2.00	to 4.00	2.00	to 4.00
Violets.....	1.00	to 1.25	.....	to .75	.25	to .75	.20	to .50
Tulips.....	3.00	to 4.00	.....	to 5.00	2.00	to 3.00	1.00	to 2.00
Roman Hyacinth, Paper White, Narcissus.....	2.00	to 3.00	.....	to 3.00	2.00	to 3.00	1.00	to 2.00
Daffodils, Trumpets.....	2.00	to 3.00	.....	to 3.00	2.00	to 3.00	.75	to 1.50
Freesia.....	.....	to 1.00	.....	to 2.00	1.00	to 3.00	.75	to 1.00
Mignonette.....	.....	to 1.00	4.00	to 5.00	3.00	to 4.00	.....	to 2.00
Adiantum Cuneatum.....	1.00	to 1.50	.....	to 1.00	1.00	to 1.50	.75	to 1.50
" Croweanum.....	.....	to 1.00	.....	to 1.00	1.00	to 1.50	.....	to 1.50
Smilax.....	1.00	to 1.50	12.50	to 15.00	5.00	to 10.00	12.00	to 16.00
Asparagus Plumosus, strings.....	.....	to 25.00	25.00	to 30.00	10.00	to 15.00	.....	to 50.00
" & Sprengerii bunches.....	20.00	to 40.00	25.00	to 50.00	10.00	to 15.00	20.00	to 50.00
Lilacs per 100 bunches.....	75.00	to 100.00	75.00	to 100.00	50.00	to 75.00	to 100.00

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37-39 Randolph Street, CHICAGO.

Roses and
Carnations
A Specialty.....

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GROWER OF

CUT FLOWERS

VICTORY

We do not need to advertise Victory aggressively any longer. We are making prompt deliveries of Cuttings daily and are giving universal satisfaction. ENOUGH SAID!

CUT FLOWER MARKET REPORTS.

There is little of note to **BOSTON** report on the business situation. Roses are not over-abundant as yet and the market is carrying off all that come in, without any stimulation of reduced rates although the attitude of buyers generally is one of expectancy of lower values. This, conditions do not warrant, thus far. White carnations are being called for in lively fashion. We apprehend this is for the purpose of dyeing green in many cases. It is too bad that the flower trade is so deeply involved in this contemptible fraud on the public and insult to a respectable flower. Lily of the valley is not seen in such superfluous quantity as last week. Narcissi of trumpet varieties, etc., are selling at prices far below the cost of production.

The first few days of the **BUFFALO** past week were very quiet but commencing Thursday business picked up somewhat and a good deal of stock was disposed of. White carnations and Beauties have been scarce although enough to go around. Colored carnations, especially Lawsons, plentiful. The scarcity seems to be about over with roses although not much surplus. The demand has been good on medium stock as a good deal of floral work has been in demand. Bulbous stock seems to be about as plentiful as ever, not moving as fast as should, and at times far below the list price. Violets of good quality are still coming in and prices have lowered as well as on other lines. The market improved greatly on green goods the supply not being as large as usual. Good smilax seems to be scarce.

Business has been **CHICAGO** brighter this week. The more prominent retailers were kept busy buying roses as fast as a shipment would come in. The rose stock with some growers has improved in quality and quantity. No trouble to find carnations. Bulbous stock on the increase, as is also the Harrisii lily which is heralding the approach of Easter, and awakening those who have not placed their orders. Violets can be found without exertion. Lily of the valley has dropped off a little in quality. Beauties are still lagging behind; several Beauty growers have not succeeded with their plants this season.

We have had a much **COLUMBUS** better market the past week than for some time. Retail prices have given way somewhat on account of the large quantities of stock being forced on the market; but so have wholesale rates. The cheering feature has been that it

has all been worked off pretty well. Carnations have been in enormous supply almost a glut at times. The city is full of flower fakirs that have knifed everything they could get hold of in the cut flower line. Weather decidedly Marchy; rain, snow, hail, sunshine, and wind, all in one day sometimes. Easter stock looking remarkably well.

Conditions locally are **DETROIT** still favorable, everybody busy and stock selling rapidly. There is a rather scant supply especially of white carnations. Roses are also below requirements but violets are abundant. Snapdragons of high quality are in and bring a high price. Lily plants are plentiful but meeting a slow sale. All plants of the season are available in quantity for every need.

There was not much improvement in the **PHILADELPHIA** market here last week. Carnations and roses were both very plentiful and the main efforts of the distributing centers were aimed at moving the surplus. An immense stock of all kinds had to go to the street men. Beauties were more plentiful, especially in shorts and mediums. As has been the case for the past few weeks Brides go better than Bridesmaids, but both are ahead of demand. Killarney moved off surprisingly well, considering the slow market. Some very good Richmonds are coming in, which find ready takers. Liberties as a rule are short, although a few growers are sending in some nice stock. In the carnation market Enchantress is still the leader. Flamingo leads among the reds. Lawson has the market to itself in the medium class. Lady Bountiful is up front in the white fancies. Its keeping qualities have been misrepresented somewhat. It is above par in that respect. Being somewhat soft in texture it is apt to bruise a little, but that is its only fault. My Maryland as grown around here shows up well. Daffodils are moving nicely, but tulips are a glut. Roman hyacinths and paper white Narcissi are plentiful but find a fair and steady market. Gardenias are down to \$25 and shorts can be got in quantity at \$10 per 100. White lilac nearly over, but enough for the demand. Violets are moving rather better than usual for this season. Orchids are scarce, Dendrobium nobile and Coeloglyne being about the only ones around.

The tendency of this **NEW YORK** market is toward lower prices, but prices have thus far receded gradually, not because

of any substantial increase in supplies, but on account of a halt in demand. In the rose line, American Beauties are now obtainable at prices that are considerably under last week's quotations. The price of the roses has been maintained at 75c. and \$1.00 for a longer period than the records show for many years. Richmond has won the favor of flower buyers, and its reception is most encouraging to those who intend to handle it next year. With its repeated free blooming qualities it should prove to be a paying proposition. The bloomers have been in steady demand this season, and it is only now that there seems to be more to distribute among the buyers. The extra and fancy grades of Brides and Bridesmaids have not moved so freely as heretofore, which is a reflection of the condition of business. Among the novelties, Chatenay, Uncle John and Killarney have found followers who have been willing to absorb the supply at good figures. All of these, however, feel the present depression and are offered at lower prices. The quotations on carnations and violets are not materially changed. Lilacs are cheaper. With a smaller quantity of tulips and daffodils there is a possibility of better averages on some varieties. Cattleyas hold up to quoted prices, and are not plentiful. Demand and supply is even as regards smilax and asparagus.

American Beauty is the **SAN FRANCISCO** only exception noted by florists in speaking of the abundance of flowers. Although California beats the world for divorce decrees, and pity it is that no flowers are used at these supposedly happy events, the weekly crop of San Francisco's marriagable maidens is like the current over-supply of violets, and the weddings of the past week have been a source of good business to florists. The few indifferent American Beauties that did arrive passed readily to consumers, and Brides, Bridesmaid and Liberty, not prime stock but in good supply, sold freely, for the week's demand for every blooming thing was exceptionally good. Every other floral species is in perfect form and sold satisfactorily, especially Hannah Hobart, Enchantress and Mrs. T. W. Lawson carnations. One big down-town store showed me its orchid sales for the week, which averaged upward of fifty orchids per day at one dollar each. Bulbous stock, including tulips, lilies, Paper White narcissus, hyacinths, callas, daffodils and freesias scored well. The week's business was better than usual and altogether pleasing.

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55 West 26th Street, New York.

Telephone 2921 Madison Square.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Mar. 10 1906	First Half of Week beginning Mar. 12 1906		Last Half of Week ending Mar. 10 1906	First Half of Week beginning Mar. 12 1906
Roses			Carnations, Ordinary	1.00 to 1.50	1.00 to 1.50
Am. Beauty and Edgeley fan and sp.	50.00 to 75.00	40.00 to 50.00	Cattleyas	30.00 to 50.00	40.00 to 60.00
extra	25.00 to 40.00	25.00 to 40.00	Lilies	0.00 to 10.00	6.00 to 10.00
No. 1	8.00 to 15.00	8.00 to 15.00	Callas	6.00 to 8.00	6.00 to 8.00
Lower grades	2.00 to 5.00	2.00 to 5.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Bride & Maid, fan and sp.	8.00 to 10.00	8.00 to 10.00	Violets	.20 to .30	.30 to .40
extra	6.00 to 7.00	6.00 to 8.00	Tulips	1.00 to 4.00	1.50 to 3.00
No. 1 and lower grades	3.00 to 5.00	3.00 to 5.00	Roman Hy. Paper White Nar.	1.00 to 2.00	1.00 to 2.00
Liberty, fancy	15.00 to 30.00	25.00 to 30.00	Daffodils, Trumpets	1.50 to 2.00	1.50 to 2.00
ordinary	1.50 to 5.00	1.50 to 8.00	Freesia	1.00 to 2.00	1.00 to 2.00
Richmond, fancy	15.00 to 25.00	15.00 to 25.00	Nigonoette	1.00 to 5.00	1.00 to 5.00
ordinary	2.00 to 8.00	2.00 to 8.00	Adiantum Cuneatum	.50 to .75	..... to 1.00
Golden Gate, fancy	8.00 to 10.00	8.00 to 10.00	Croweanum	..... to 1.50	..... to 1.50
ordinary	2.00 to 4.00	2.00 to 4.00	Smilax	8.00 to 12.00	8.00 to 12.00
Chatenay, fancy	8.00 to 10.00	8.00 to 10.00	Asparagus Plumosus	25.00 to 35.00	25.00 to 35.00
ordinary	2.00 to 4.00	2.00 to 4.00	" & Sprenger, bunches	20.00 to 25.00	20.00 to 25.00
Carnations, Fancy	2.00 to 3.00	2.00 to 3.00	Lilac per 100 bunches	40.00 to 60.00	40.00 to 60.00

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Best Beauties, Brides and Bridesmaids.
Lily of the Valley, Orchids and
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Furnish best stock at fair prices all the year round Send for quotations on fall orders

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Send for Our Weekly Price List on Cut Flowers.

\$1.75 per 1000

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Grafted Roses

First class, early grafted, Brides and Bridesmaids on best English stock. Prices \$10.00 and \$12.00 per hundred. See sample at Stall No. 52 Park Street Market.

MONTROSE GREENHOUSES

Montrose, Mass.

Headquarters in Western New York

FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

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Wholesale Commission Florist, also Dealer in Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.
BUFFALO, N. Y.

Give us a trial.

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NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

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NEW CROP SOUTHERN WILD SMILAX \$3.50 and \$7.00 per Case.

Headquarters for all FLORISTS' SUPPLIES. Wire Designs, Cut Wire, Letters, Immortelles, Cycas Leaves, Wheat Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
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WHOLESALE FLOWER MARKETS.

PER 100.

TO DEALERS ONLY.

	CINCINNATI March 11	DETROIT March 14	BUFFALO March 13	PITTSBURG March 12
ROSES				
Am. Beauty and Elgely, fan and sp.	40.00 to 50.00	50.00 to 60.00	..... to	50.00 to 60.00
" extra.....	25.00 to 30.00	30.00 to 50.00	..... to	30.00 to 40.00
" No. 1.....	15.00 to 20.00	25.00 to 30.00	..... to	15.00 to 20.00
" Lower grades.....	5.00 to 10.00	10.00 to 15.00	..... to .....	..... to
Bride and Maid, fan. and sp.....	..... to 8.00	12.00 to 15.00	10.00 to 12.50	..... to 12.00
" extra.....	5.00 to 6.00	7.00 to 8.00	8.00 to 10.00	..... to 10.00
" No. 1 and Lower gr.....	3.00 to 4.00	4.00 to 6.00	5.00 to 8.00	4.00 to 8.00
Liberty, fancy.....	..... to 8.00	10.00 to 12.00	10.00 to 12.00	..... to
" Ordinary.....	4.00 to 6.00	5.00 to 10.00	4.00 to 8.00	..... to
Richmond, Fancy.....	..... to	6.00 to 8.00	10.00 to 12.00	15.00 to 20.00
" Ordinary.....	..... to	5.00 to 8.00	6.00 to 10.00	0.00 to 10.00
Golden Gate, Fancy.....	6.00 to 8.00	8.00 to 10.00	8.00 to 10.00	..... to 8.00
" Ordinary.....	3.00 to 4.00	4.00 to 6.00	4.00 to 8.00	..... to 4.00
Chatenay, Fancy.....	..... to	8.00 to 10.00	8.00 to 10.00	12.00 to 15.00
" Ordinary.....	..... to	4.00 to 8.00	5.00 to 8.00	4.00 to 8.00
CARNATIONS				
Fancy.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00
Ordinary.....	1.00 to 2.00	2.00 to 2.50	1.50 to 2.50	..... to 1.00
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to 50.00	..... to .....	..... to
Lilies.....	12.00 to 15.00	10.00 to 14.00	10.00 to 13.00	12.50 to 15.00
Callas.....	10.00 to 12.00	10.00 to 13.00	8.00 to 12.00	10.00 to 12.50
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Violets.....	1.00 to 1.50	.75 to 1.00	.40 to .75	.50 to .75
Tulips.....	2.00 to 4.00	3.00 to 5.00	2.00 to 3.00	2.00 to 3.00
Roman Hyacinth, Paper White Narcissus.....	2.00 to 4.00	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00
Daffodils; Trumpets.....	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00
Freesia.....	..... to .....	..... to	1.00 to 2.50	2.00 to 3.00
Mignonette.....	..... to .....	..... to	2.00 to 4.00	2.00 to 3.00
Adiantum Cuneatum.....	1.00 to 1.50	..... to 1.00	.50 to 1.00	..... to
" Croweatum.....	..... to .....	..... to	1.25 to 1.50	..... to 1.50
Smilax.....	12.50 to 15.00	12.00 to 18.00	15.00 to	12.50 to 15.00
Asparagus Plumosus, strings.....	40.00 to 50.00	25.00 to 50.00	25.00 to 50.00	30.00 to 50.00
" & Sprenger, bunches..... to 35.00	30.00 to 35.00	25.00 to 50.00	20.00 to 40.00
Lilacs per 100 bunches..... to to to to 50.00

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WE } WANT } ADVERTISING
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PHILADELPHIA NOTES.

C. H. Grakelow of the Depot Floral Exchange was thrown from a trolley car on the 10th inst. and severely injured.

An English nurseryman is offering in this market erica sprays by the pound. The variety is Erica Mediteranea hybrida and the price five shillings per pound, post free.

The Florists Gun Club of Philadelphia will entertain the Allentown Gun Club March 27. The shoot will be at Wissinoming, followed in the evening by a banquet in the city. Covers will be laid for 50.

Have you read Robert Craig's digest of the carnation past and present? If not you have missed a fine essay. See HORTICULTURE, page 253, March 3. For a judicious marshalling of the facts and an unbiased summing up of the situation, commend me to this gem of Robert Craig's. It ought to please even the fastidious soul of Willis N. Rudd.

Jno. McIntyre, late with Battles and Habermehl, is now with the Leo Niessen Co., having entered on his new duties on the 12th inst.

Among our visitors this week were Phil. Breitmeyer of Detroit, Mich.; Mr. Keller of J. B. Keller & Sons, and Mr. Salter of Salter Bros., Rochester, N. Y.

The report that Messrs. Davis and Wilson had bought out the Poryzees' place seems to have been premature. Negotiations were under way and a deposit made, but it now appears there was some fall down in arranging the details. At last accounts Mr. Poryzees was still in possession.

Jno. Westcott, resplendent in a white vest with pink dots, a green tie, and seersucker pants, arrived from his southern trip on the 11th inst. Mr. Westcott says that everybody who can afford it ought to go to Palm Beach, Fla., every winter and see the bougainvilleas, the crotons, the vincas (and all the things we have such trouble with) growing wild and blooming profusely.

A FLORIST'S WINDOW IN WINTER.

A window in a city street,
With thousands daily passing by;
With buds and blooms of flowers replete,

Born 'neath a glorious summer sky.
Within are roses blushing red,
That on the air their sweets exhale;
Pinks, borne from out their natal bed,
And vines that near them lightly trail.

Chrysanthemums and asters bright,
And modest violets profuse;
Tall, leaning lilies, pure and white,
And pansies gay with varied hues.
And there are others just as fair,
Whose beauties would our praises win,

That toss sweet fragrance on the air,
And seem to beckon us, "Come in!"
—Thomas F. Porter, in Boston Globe.

DETROIT

John Breitmeyer's Sons

Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

**Artistic Designs
High Grade Cut Blooms**

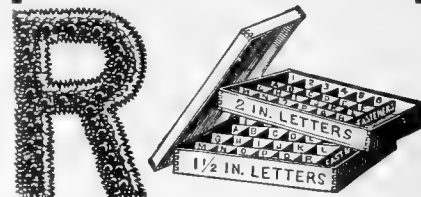
We cover all Michigan points and good sections of Ohio, Indiana and Canada.



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D. C.

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This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

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122 West 25th St., New York

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SEED TRADE TOPICS

SEEDSMEN AT WASHINGTON.

A representative delegation of eastern seedsmen responded to a hurry call to Washington on the "free seed" matter, March 6. Among those who attended were: W. Atlee Burpee, William Henry Maule, and Walter P. Stokes, of Philadelphia; J. Forbes and Patrick O'Mara, New York; John Fottler, Boston; F. W. Boigiano, Washington; T. W. Wood, Richmond, and Albert McCullough, Cincinnati.

In their conferences with the powers that be, the delegation was joined and ably seconded by Mr. Eger, head of the Maryland State Grange, who introduced the resolution condemning free seeds at the National Grange convention at Portland, Oregon, which was passed unanimously. Professor Massey also joined the delegation.

Mr. Burpee was interviewed on his return, and stated that he was confident much good had been accomplished by the visit. The interests most concerned had made themselves felt at the psychological moment, and they are hopeful that at last the consciences of the national lawgivers have become awakened to the iniquity and injustice of this hoary abuse, and that when the committee's report comes before the house the appropriation will be abolished. Mr. Burpee was very appreciative of the valuable assistance of Mr. Eger, who, as representing a large body, consisting of over 800,000 farmers, had considerable influence with such congressmen as imagine that the farmer vote can be influenced by this species of petty bribery.

The delegation also took occasion to point out to the Secretary of Agriculture and others the great injustice of the present method of publishing the names of respectable houses in the seed trade on the alleged plea that they had been selling adulterated seeds. Much damage had been wantonly done to men of the highest reputation, without a shadow of excuse. Mr. Wilson received the delegation very courteously and promised to do everything in his power to so interpret and execute the law as it stands as to do the least possible injury to honorable houses and to touch only such men as are guilty of something wrong and to first give every one the right to defend his reputation before the proper tribunals (guaranteed to every citizen by the Constitution) before publishing him to the world as a criminal. The Department of Agriculture is not a court of justice, and to institute a Spanish Inquisition of this kind, where the defendant is given no opportunity to put up a defence, is to carry a free people back into the inferno of the middle ages, abolish Magna Charta, the Bill of Rights, the Declaration of Independence, and the Constitution of the United States. It is no wonder the seed trade of the country are indignant; the wonder is that they are not more red-hot than they are! They ought to take the matter to the Supreme Court as the resolution of Congress governing the matter is clearly unconstitutional. To sit tamely un-

der such a rank injustice would be to confess themselves mice and not men.

G. C. WATSON.

"WANTING THE PIE AND THE PENNY, TOO."

On a recent occasion when Howard Earl of Burpee's, Philadelphia, was entertaining a few congenial friends in the seed trade, he touched upon a pertinent topic when he said: "Gentlemen, we want no surplus seeds thrown on the market after your seed growers and farmers have filled your contracts with us and got your money. The trouble with you people is, that you want your pie and your penny, too."

The seedsmen really have a right to be warm on this contract seed subject, and the farmers will be wise if they pattern themselves on the square deal plan of such men as Keeney and Grinnell, and refrain from trying to work things like Uncle Rastus's coon trap, which caught 'em coming and caught 'em going too! That sort of thing may work all right for the time being; but it will surely be a boomerang in the end. If one be a contract grower, let him stick to that. It is the only safe plan. Besides, it's the only square plan, and that's the most important feature of all human intercourse and the only one that will make for an enduring success. Have not the much-abused seedsmen enough to stagger under with the free seed question, the warranty, the inquisition, and the Other Fellow, without this other addition to their troubles? I trow yes!

G. C. W.

TO NURSERYMEN, PLANT GROWERS AND SEEDSMEN.

The executive committee of the Society of American Florists and Ornamental Horticulturists has arranged for an outdoor trade display in connection with the annual convention to be held in Dayton, Ohio, next August. The pavilion in which the meetings and customary trade exhibit will be held is advantageously situated in a large fair ground which is well adapted for outdoor planting. Plans and diagrams are being prepared and will shortly be distributed. In the meantime, the secretary would like to hear from parties who are disposed to take advantage of this excellent opportunity to make a display of hardy or tender material in a community widely interested in the subject of garden adornment. Applications are already in hand for large spaces for the exhibition of cannas, Baby Rambler roses, phloxes, asters, hydrangeas, tuberous begonias, altheas and fancy conifers. As the time is short for the preparation of the ground and planting, a prompt response to this announcement is urged. Information sheets and entry blanks will soon be ready. Address William J. Stewart, Secretary, 11 Hamilton Place, Boston.

The Bromfield-Colvin-Ries Co. has been incorporated at Bay City, Mich. President, A. T. Colvin; vice-president and treasurer, J. F. Bromfield; secretary, F. J. Ries.

PHILADELPHIA SEED NOTES.

Signs that spring has opened up earlier than usual this year are plentiful around Dreer's, Johnson & Stokes' and Michell's. All report an unusually early demand. The latter firm reports overtime even with the eleven extra hands as against last year. Philip Freud, the window artist for the Michell firm, has been particularly busy in the window display for the spring opening (St. Patrick's day), combining sentiment and business very effectively. Shamrocks, sweet peas and lawn grass are the groundwork for this artistic appeal.

CATALOGUES RECEIVED.

C. S. Harrison, York, Neb. List of paeonies and perennials.

Thaddeus N. Yates & Co., Philadelphia. Trade list of trees, shrubs and vines for spring, 1906.

Imperial Seed and Plant Co., Baltimore, Md. Trade price list of cannas and hardy herbaceous plants.

Benjamin Hammond, Fishkill-on-Hudson, N. Y. List of Slug-Shot remedies for insects and fungous diseases.

John H. Sievers & Co., San Francisco, Cal. 1906 list of carnations, begonias, pelargoniums, orchids, palms and ferns.

James Vick's Sons, Rochester, N. Y. The Grange and Market Gardeners' Wholesale Price List, containing a tempting list of things good to eat.

Ross Bros. Co., Worcester, Mass. Annual seed and implement catalogue. A very complete general list to which is added a large list of promising novelties.

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ASTER—Queen of the Market. Extra Early. Colors: Dark Blue, Light Blue, Pink, Scarlet, White and Mixed. each trade packet, 20 cts., 60 cts. per ounce.

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CANDYTUFT—Empress, large white, trade packet, 10 cts., 25 cts. per ounce.

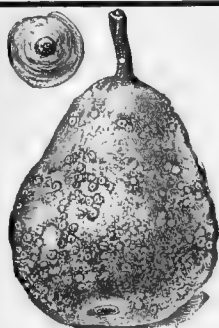
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 Sterilized Sheep Manure.
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Foley Mfg. Co., Chicago.
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GREENHOUSE HOSE.

Anchor Greenhouse Hose Is the best for Florists.
Mineralized Rubber Co., New York.

HARDY FERNS AND SUPPLIES.

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PATENTS.

Siggers & Siggers, Washington, D. C.
 Patents, Trade Marks, and Copyrights.
 25 years' active practice.
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- Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds

SEED CASES—MICE PROOF.

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- Peter Reinberg, 51 Wabash Av., Chicago.
- A. L. Randall Co., 21 Randolph St., Chicago.
- Vietor Bros., 55 Wabash Av., Chicago.
- Vaughan & Sperry, 60 Wabash Av., Chicago.
- E. F. Winterson Co., 45, 47, 49 Wabash
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Cincinnati.

- Ohio Cut Flower Co., 129 E. 3d St.
- Wm. Murphy, 128 E. 3d St.

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- Alex. J. Guttman, 43 West 28th St.
- E. C. Horan, 55 West 28th St., New York.
- Philip F. Kessler, 55 W. 26th St., New
York.
- Julius Lang, 53 West 30th St., New York.
- A. H. Langjahr, 55 W. 28th St., New York.
- James McManus, 50 W. 30th St., New York.
- Chas. Millang, 50 West 29th St., New York.
- Frank Millang, 55-57 W. 26th St., New
York.
- A. Moltz, 55-57 W. 26th St., New York.
- John J. Perkins, 115 W. 30th St., New York.
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- W. F. Sheridan, 39 W. 28th St., New York.
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- J. B. Murdoch & Co., 545 Liberty St., Pitts-
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ASTER KATE LOCK.

- J. H. Lock, Toronto, Can.

BABY RAMBLER.

- Benjamin Connell, West Grove, Pa.

CANNAS.

- W. F. Kasting, 383-87 Ellicott St., Buffalo,
N. Y.

CLIMBING JAP. ROSES.

- C. M. Hemala, Buckley, Ill.

GRAPE DUST.

- Hammond's Paint & S. S. Works, Fishkill,
N. Y.

LILIES AND OTHER EASTER
STOCK.

- N. F. McCarthy & Co., Boston.

LILIES, IRISES, BEGONIAS, PRIM-
ROSES.

- J. M. Thorburn & Co., New York.

MANETTI STOCKS.

- A. Rolker & Sons, New York.

NICO-FUME.

- Ky Tobacco Product Co., Louisville, Ky.

NURSERY STOCK.

- Hart Pioneer Nursery, Fort Scott, Kansas.

PRIMULA OBCONICA.

- O. V. Zangen, Hoboken, N. J.

PRODUCT OF 35 LARGEST ROSE
GROWERS.

- Welch Bros., 15 Province St., Boston.

RAMBLER ROSES.

- Conard & Jones Co., West Grove, Pa.

ROSES.

- Leadle Floral Co., Springfield, O.

ROSES FOR OUTDOOR PLANTING.

- H. A. Dreer, Philadelphia.

ROSE FRAU KARL DRUSCHKI.

- Ellwanger & Barry, Rochester, N. Y.

ROSE MISS KATE MOULTON.

- Minneapolis Floral Co., Minneapolis, Minn.

ROSES, SPECIAL OFFER FOR IM-
MEDIATE ACCEPTANCE.

- Robbink & Atkins, Rutherford, N. J.

ROSE WELLESLEY.

- Waban Rose Conservatories, Natick, Mass.

SALVIA FIREBALL.

- Geo. L. Miller Co., Newark, O.

STEAM TRAP.

- E. Hippard, Youngstown, O.

VINCA MINOR.

- Eastern Nurseries, Jamaica Plain, Mass.

WELCOME TO ROSE SHOW
VISITORS.

- Thomas F. Galvin, 799 Boylston and 124
Tremont St., Boston.

WELCOME TO ROSE SHOW
VISITORS.

- J. Newman & Sons, Corp., 51 Tremont St.,
Boston.

WELCOME TO ROSE SHOW
VISITORS.

- Edward MacMulkin, 194 Boylston St., Bos-
ton.

WELCOME TO ROSE SHOW
VISITORS.

- Houghton & Clark, 396 Boylston St., Bos-
ton.

WELCOME TO ROSE SHOW
VISITORS.

- Julius A. Zinn, 2 Beacon St., Boston.

WELCOME TO ROSE SHOW
VISITORS.

- Houghton & Dutton, 55 Tremont St., Bos-
ton.

WELCOME TO ROSE SHOW
VISITORS.

- Penn the Florist, 43 Bromfield St., Boston.

Three Sterling Carnation Novelties

Winsor, White Enchantress, and Helen M. Could

There is nothing about any of these varieties that we wish to conceal; therefore, we cordially invite all carnation growers to pay us a visit. Come at any time.

WINSOR—Winner of Lawson Silver Medal.

This is sure to prove a winner. Nothing approaches it in color, which is a clear silvery pink—a shade between Enchantress and Mrs. Thos. W. Lawson—and much more beautiful than either. In fact, it is just the shade that we have all been trying to get. The color will make it sell in any market. The stem is just right. The flowers are considerably larger than Lawson and much better shaped. As a grower it has everything that can be desired. So far we have not seen any large-flowering variety quite so free as Winsor.

WHITE ENCHANTRESS.

A pure white sport of Enchantress, at once the most popular and most profitable carnation grown today, on account of its size and stem and freedom with which it blooms. White Enchantress is identical in every respect but color. Those desiring quality as well as quantity will find it in White Enchantress.

HELEN M. COULD.

This is a beautiful variegated sport of Enchantress. The ground color is a lovely shade of clear pink, the variegation carmine, making an exquisite combination of colors, besides being something distinctly new. At a short distance the variegation does not show at all, the general effect being a beautiful shade of dark pink. Growth, habit, size, and stem are the same as Enchantress.

We have fine stocks, from which we can deliver healthy cuttings of Variegated Lawson, White Lawson, Red Lawson, Enchantress, Mrs. M. A. Patten, Lady Bountiful, etc.

Our Variegated Lawson is all that we claimed for it last season, and is giving the fullest satisfaction everywhere—the best in the variegated class. Come and inspect our stock of new and standard sorts

F. R. PIERSON CO.,

TARRYTOWN - ON-HUDSON, NEW YORK.

AT BOSTON

Robert Craig Wins Again

Not another scarlet carnation has been able to take first honors with ROBERT CRAIG.

The introducers of CRAIG fill all orders on time and send out only healthy, vigorous, well grown selected cuttings taken from blooming stems.

Send in your order now. We can fill it promptly.

\$3.00 for 25	\$12.00 for 100	\$50.00 for 500
6.00 for 50	25.00 for 250	100.00 for 1000

5 per cent. discount for cash with order.

COTTAGE GARDENS COMPANY,
QUEENS, N. Y.

Bulbs for Easter.

Hyacinths, Jonquils, Tulips, first-class bulbs, just right for Easter flowering, 4½ in. pots, \$1.50 per doz. \$10.00 per 100.

ASPARAGUS SPRENGERII, 4 1-2 in. pots, \$1.50 per doz., \$10.00 a 100; strong, 3 in. pots, 75c. per doz., \$5.00 per 100; 2 in. pots, \$2.00 per 100.

ABUTILON SAVITZII, 3 in. pots, 75c. per doz., \$5.00 per 100; 2 in pots, 50c. per doz., \$3.00 per 100.

CLEMATIS PANICULATA, 4 in. pots, \$1.50 per doz., \$10.00 per 100; 3 in pots, 75c. per doz., \$5.00 per 100.

CLEMATIS, large fld. 2 year old plants, \$3.00 per doz.

DAISY, Queen Alexandria, 3 in. pots, 75c. per doz., \$5.00 per 100.

ECONYMUS, golden variegated, 2 1-2 in. pots, 60c. per doz., \$3.00 per 100.

ECONYMUS, radicans, var., 2 1-2 in. pots, 50c. per doz., \$3.00 per 100.

PRIMULA OBCONICA, 4 in. pots in bloom, \$1.00 per doz.

GERANIUMS, double scarlet, white and pink, from 3 in. pots, strong, \$4.00 per 100.

C. EISELE, 11th & Roy Streets, PHILADELPHIA, PA

	100	1000
RICHMOND ROSE 2½ in.	\$12.00	\$100.00
KAISERIN “ “	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
ENCHANTRESS	3.00	25.00
QUEEN and LAWSON	2.00	18.00

1st March delivery
E. H. PYE, FLORIST
UPPER NYACK, N. Y.

ROOTED CUTTINGS

Robert Craig, Victory, John E. Haines, White Perfection, Variegated Lawson and My Maryland

Also all the leading commercial varieties.
Send for list.

WM. SWAYNE, Kennett Sq., Pa.

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1,000
Fiancee.....	\$6 00....	\$50 00
Cardinal	6 00....	50 00
Patten	3 00....	25 00
Enchantress....	2 50....	25 00
Queen	2 00....	15 00
Maceo.....	2 00....	15 00
Lawson	2 00....	15 00
Fair Maid	2 00....	15 00
Challenger	2 00....	15 00
Prosperity.....	2 00....	15 00

G. WARBURTON, Fall River, Mass.

RED SPORT

Sold on its merits alone.

	Per 100	Per 1,000
RED SPORT	\$5.00	\$40.00
QUEEN LOUISE	1.25	10.00

A. B. DAVIS & SON, Inc.
PURCELLVILLE, VA.

We are booking orders for June delivery

Begonia Gloire de Lorraine

Cuttings from 2 1-2 inch pots.

Ready for 4 inch. Price \$10.00 per 100.

satisfaction guaranteed. Place your order now.

INNES & McRAE, - Cheswick, Pa.

In writing to Advertisers kindly mention Horticulture

ROBERT CRAIG

The Best SCARLET ever offered to the trade.

We can make immediate delivery of rooted cuttings of the above variety.

\$12.00 per 100. \$100 per 1,000.

J. D. Thompson Carnation Co., Joliet, Ill.

Peremptory Sale

of New and Choice

Dahlia Roots

The cream of the stock of the Atco Dahlia Farms Embracing most of the newer and more refined forms such as Kriemhilde, etc.

The 26 best varieties for cut flower purposes.

Send for descriptive price list.

SAMUEL S. PENNOCK

The Wholesale Florist of PHILADELPHIA
1612-1618 Ludlow Street

VARIEGATED LAWSON

ROOTED CUTTINGS

H. A. Stevens Co. Variety

\$6.00 per 100 \$50.00 per 1000

Notes from Carnation Convention, Wm. N. Craig says: "Variegated Lawson, as staged by Stevens' Co. took every one's eye." Also:—

	Per 100		Per 100
Enchantress	\$2.50	Queen	\$2.00
Harry Fenn	2.50	Boston Market	2.00
Manley	2.50	Mrs. T. W. Lawson	2.00
Lady Bountiful	3.00	Fair Maid	2.00
Mrs. M. A. Patten	2.00	Pink Patten	6.00

HENRY A. STEVENS CO.,
East Street, Dedham, Mass.

CARNATION CUTTINGS

	per 100	per 1,000		per 100	per 1,000
Glendale, varieg., new	\$12.00	\$100.00	Harlowarden, crimson	\$2.00	\$15.00
Fiancee, pink	8.00	75.00	Crusader, scarlet	2.00	15.00
White Perfection, new, white	12.00	100.00	Mrs. M. A. Patten, varieg.	3.00	25.00
Skyrocket, new, scarlet	6.00	50.00	Fair Maid, pink	2.00	15.00
Daybreak Lawson, lt. pink	12.00	100.00	Mrs. Thos. W. Lawson	2.00	15.00
Candace, pink	12.00	100.00	Prosperity,	2.00	15.00
Lady Bountiful, white	4.00	35.00	White Lawson,	4.00	30.00
Enchantress, lt. pink	3.00	25.00	Cardinal, all sold out; wish to buy.		

ROSE PLANTS

	per 100	per 1,000		per 100	per 1,000
New Richmond, 2 1/2 in. pot	\$15.00	\$120.00	The Bride, 2 1/2 in. pot	\$3.00	\$25.00
American Beauty, "	6.00	50.00	Bridesmaid "	3.00	25.00
Madam Chatenay, "	3.00	25.00	Golden Gate "	3.00	25.00
Uncle John, "	3.00	25.00			

Chicago Carnation Co. James Hartshorne, Mgr. Joliet, Ill.

Some People have taken our advice as published in these columns recently and are buying My Maryland

ly and are buying for trial. We reiterate here—it it succeeds with you as it does with us, it will prove the best white carnation you ever grew. Despite the variety's apparent failure in several places, we strongly advise all growers to give it a trial. We have been frank about its faults as developed in other places. We doubt if these will develop in many places.

Jessica we believe, will succeed generally and will prove to be the best red and white variegated ever disseminated. Few varieties show as strong constitution as this one does and it is a wonderful producer. Extra fine stock of both varieties ready now. R. C., \$2.50 per doz., \$12.00 per 100; \$100.00 per 1000. Pot plants, \$3.00 per 100 extra.

Send for our catalog, now ready.

The H. Weber & Sons Co., Oakland, Md.

DAHLIAS

ROOTS IN ANY QUANTITY

DAVID HERBERT & SON

Successors to

L. K. PEACOCK, Inc.
ATCO, N. J.

Coleus Rooted Cuttings

Verschaffeltii, Fire Brand, Beckwith's Gem, 60c. per 100.	Golden Queen, Queen Victoria, Fancy Varieties, \$5.00 per 1,000.
Golden Bedder, Messey, 75c. per 100.	Hero, Pearl of Orange, \$6.00 per 1,000.

Positively free from mealy bugs.

Ageratum, Stella Gurney, Princess Pauline, Salvia, Splendens, Bonfire, 75c. per 100 \$6.00 per 1,000

A. N. PIERSON
Cromwell, Conn.

.. STERILIZED ..

SHEEP MANURE. It's free from weed seeds and objectionable litter. A natural stimulant for plant life. \$1.25 100 lbs. 1/4 ton \$11.00 tons \$20.00

WM. ELLIOTT & SONS.
201 Fulton Street, - - New York

500,000 COLEUS

Verschaffeltii, Golden Bedder and fancy named varieties.

Rooted Cuttings, 60c. per 100, \$5.00 per 1000 Cash.

H. N. EATON, South Sudbury, Mass.

In writing to Advertisers kindly mention Horticulture

R. & J. FARQUHAR & CO.

6 and 7 South Market Street
Boston, Mass.

PALMS**SPECIAL SURPLUS OFFER****KENTIA BELMOREANA**

	Doz.	100
3½ inch Pots 4-5 leaves	\$2.00	\$15.00
4 " " 5-6 "	4.50	35.00
5 " " 6-7 "	at 1.00 each	

F.O. B. Boston, no charge for packing

Cash with order or satisfactory references

Palms, Ferns**And Decorative Plants**

A Fine Lot of AZALEAS in Great Variety
A Large Assortment of Ferns for Jardinieres
Also, Araucarias, Rubbers, Pandanus, Aralias
Dracaenas, Aspidistras, Marantas, Crotons
etc., etc.

WHOLESALE PRICE LIST ON APPLICATION

A. LEUTHY & CO.

Importers and Exporters
Growers and Dealers

PERKINS STREET NURSERIES
Roslindale, Boston, Mass.

It is never too early nor too late
to order the

Scott Fern

Best Commercial Introduction for many years
JOHN SCOTT

Flatbush, Brooklyn, New York.

NEPHROLEPIS BARROWSII.	\$10 PER 100
SCOTTII,	5 " "
BOSTON,	3 " "

HENRY H. BARROWS & SON,

Florists, Whitman, Mass

GODFREY ASCHMANN

1012 Ontario St., PHILADELPHIA

Importer of Araucaria excelsa, glauca,
compacta, and robusta

PALMS and AZALEAS

Write for prices

MARQUERITES

Rooted Cuttings Queen Alexandria, the new
semi-double white, \$3.00 per hundred. Etoile
d'Lyons, yellow, \$2.00 per hundred.

THE F. W. FLETCHER CO.

AUBURNDALE, MASS.

EASTER STOCK

HYDRANGEAS
EASTER LILIES
AZALEAS, 50c. to \$7.50
GLADSTONE SPIREAS
RAMBLER ROSES
HERMOSA ROSES
TULIPS, (in pans)
HYACINTHS, (in pans)
DEUTZIAS
RHODODENDRONS, etc.

WILLIAM C. SMITH

61st and Market Street, PHILA.

Market Street cars take you direct
to our door. Mention Horticult-
ure when you write.

ORCHIDS**Coelogyne Cristata**

One of the Best Florists Orchids

(See Issue "HORTICULTURE" Feb. 24th)

We have an Excellent Stock of this Grand
Variety (about 250 Plants) ranging in size from
4 inch to 12 inch and 14 inch Pans, all growths in
Air condition.

If interested in Cattleyas and other Popular
Varieties, Write. We can make Attractive
Prices.

NATHAN SMITH & SON,
Adrian, Mich.

Orchids

Largest Importers, Exporters, Growers
and Hybridists in the World

Sander, St. Albans, England

ORCHIDS

Just arrived a large shipment of
Cattleya Gigas

Write for Prices

Lager & Hurrell, Growers and Importers.... Summit, N.J.

ORCHIDS, PALMS**FOLIAGE PLANTS****Bay and Box Trees****JULIUS ROEHRS CO.**

EXOTIC NURSERIES RUTHERFORD, N. J.

CYCLAMEN SEEDLINGS

ONCE TRANSPLANTED.

Giant Strain; none better; Including Sal-
monium, New fringed, Roccoco and Papilio
in five separate Colors.

\$2.50 per 100, \$22.00 per 1000.

C. WINTERICH, Defiance, O.

**HOTHOUSE
GRAPE VINES,**

fine strong, two and
three year old canes,
Black Hamburg,
Muscat Alexandria
and other varieties

Rose Hill Nurseries,

NEW ROCHELLE, N. Y.

J. E. FELTHOUSEN**GERANIUMS**

We have at least 150,000 geraniums in 2¼ in. pots
and in fine condition and the leaders at \$18.00 per 1,000;
\$2.00 per 100.

	Per 100
Rose Geraniums, 2¼ in. \$18.00 per 1000.	\$2.00
Ageratum Gurney, P. Pauline and others	
" " 2¼ in.	2.00
" " R. C. . . . .	.60
Fuchsias all the leading varieties, 2¼ in.	3.00
Heliotrope, all dark, 2¼ in.	3.00
Sweet Alyssum 2¼ in.	2.00
Lobelia, 2¼ in.	4.00
Alternanthera, rooted cuttings. . . . .	.50
German Ivy, all rooted cuttings. . . . .	.50
English Ivy, extra fine rooted cutting.	1.50
The World and all of Coleus R. C. \$.60 per 100.	
\$5.00 per 1,000. Cash must accompany the order.	

J. E. Felthousen, Schenectady, N. Y.

**FREESIA....
Refracta Alba
and Hybrids**

5,000,000 to dig this season.

Price and quality of stock cannot be beaten.

Also Grand Duchess Oxalis, all colors.
Bermuda Buttercups, Tritonias, Ixias,
Sparaxis Chlidanthus Fragrans, Zephy-
ranthes, Candida and Rosea Ornithoga-
lum, Amaryllis Johnsoni and Belladonna,
Fancy Vittati Hybrids. Will begin digging in
May and deliver in June and July.

REES & COMPERE,

P. O. Address, Long Beach, Cal., 227, R. F. D. 1.

PANSIES

Over one million plants ready from our Fam-
ous Strain. None better. \$1.50 per 500,
\$2.50 per 1000.

Daisies (Bellis) fine plants, \$2.00 per 1000.
Forget-me-not, Hardy blue, \$3.00 per 1000.
Geraniums out of 2 1-2 inch pots, best va-
rieties, \$1.50 per 100. 50,000 ready now.

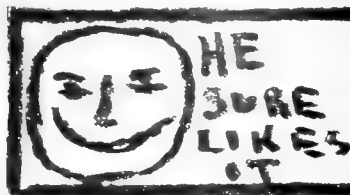
J. C. SCHMIDT CO., - BRISTOL, PA.

Sphagnum Moss and Cedar Poles
Moss. 15 lb Bale, \$1.25; 3 Bales, \$3.25; 5 Bales,
\$5.00; Pkg Moss, 10 Bales, \$7.50. Poles, 2 inch
butt 8 feet long, \$15.00 per 100; 2¼ inch butt
16 to 12 feet long, \$22.50 per 1000. Cash.

H. R. AKERS, Chatsworth, N. J.

Nephrolepis Piersoni Elegantissima

F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, NEW YORK.



I have yet to find anything to compare with the FUMIGATING KIND TOBACCO POWDER. I have tried a few at that.

WM. SIM, Cliftondale, Mass.

Why not ask for a free five pound trial sample? It is convenient, it only costs you the express charge. It's no new fangled thing, hundreds write of it like Mr. Wm. Sim. Our booklet tells how to fumigate a house 100x25 feet with it for fifteen cents. THE H. A. STOOTHOFF CO. MEANS, 114 West Street, New York City, N. Y.

WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order.

TO LEASE FOR A TERM OF YEARS my greenhouses consisting of about eighteen thousand feet of glass, all Hitchings & Co. boilers, and four of the houses are also Hitchings & Co.'s construction; city water on premises, two trolley lines one block, and railroad station two blocks from the premises; three miles from 34th St. ferry. Geographically they are in the centre of Greater New York. If you want a place this is a rare chance, so do not write but come see it, possession June 1st, 1906. Apply to Alex S. Burns, 128 4th St., Wood Side, Queens Borough, N. Y.

WANTED BY APRIL 1ST—A FOREMAN on a large commercial place. A position is offered to an honest, sober, intelligent man. One who is familiar with Greenhouse and Outside plants, who is able to handle men to good advantage. To such a man is offered a permanent position with good salary. Give full particulars in first letter. Address Plants, care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—Man to take care of conservatory; one who has knowledge of spring planting and knows how to do trimming. Address Spring, care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED.—I would like to place my son, age 19 years in a good private or commercial establishment. He has some knowledge of the business. Thomas Heskey, gardener to Lt. Gov. E. S. Draper, Hopedale, Mass.

WANTED—First-class man to take charge of a city flower store in fashionable district. One capable of making fine table decorations and waiting on critical customers. Salary \$20 per week to right man. T. W., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—A first-class Fern Grower, one who has had experience. Good wages, steady position. Send references. R. H. N., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—To lease or buy, a place with 15,000 or 20,000 ft. of glass, in good location, vicinity of Boston, suitable for raising roses and carnations. R. D., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—For a large private place, a first-class man as Inside Foreman. Must have European experience in some of the best places. Apply, with copies of testimonials, to H. W., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—Position as Head Gardener. English, age 24, single, good experience, outside and under glass, good references, disengaged April 1st. H. Gant, Dalton, Mass.

FOR SALE.

Greenhouse and vegetable business, carried on for ten years. About 5000 feet of glass, two new houses, two old; new dwelling house and barn; 30 acres of land. Walter Slade, Box 394, Franklin, Mass.

FOR SALE—Two greenhouses, 23x95, 20x68, with hot water heating apparatus and well stocked with Carnations and Violets. Will sell as it is with dwelling house attached and 17,000 feet of land, or to be taken down and removed. Address 703 Chestnut St., Waban, Mass.

CALIFORNIA NOTES.

The first strawberries for the season arrived in San Francisco March 7 from Los Angeles—a crate of 30 double handful baskets of large, well-formed berries that sold at 35 and 40 cents.

The California Promotion Committee, an offshoot from the State Board of Trade, has proved of valuable service to the commonwealth during the past six years of its existence. It is sustained by all the big industrial houses and wealthy men of the state by annual subscriptions, payable in monthly installments, and the growers' and florists' contribution amounts to several hundred dollars per annum. Just now this state committee has the Balboa Exposition in hand. This is a World's Fair scheme, planned to take place in celebration of the discovery of the Pacific ocean by Balboa and also the opening of the Panama canal. The date fixed for the opening of the exposition in San Francisco is 1913, and the managers in charge are anxious that all correspondents of trade papers assist the enterprise with notices. Last week Congressman Kahn introduced a bill in Congress to appropriate for the exposition \$5,000,000 conditionally upon the raising of a like amount by California.

FIRE RECORD.

A fire at the Charles Cummings' place, Woburn, Mass., on the morning of March 9, did serious damage to the glass in the 10 greenhouses adjacent to the barn, in which the fire started. The loss is reported to be \$10,000; partially insured.

A building used for the storage of moulds, garden vases and boxes, at the factory of the A. H. Hews Pottery Company, North Cambridge, Mass., was completely destroyed on the afternoon of March 10. Fifty tons of hay were included in the loss, which was estimated at \$8000. The fire is believed to have been of incendiary origin.

Green's Nursery Co., Rochester, N. Y., lost nearly \$10,000 by a fire on March 8, which originated in the basement and spread through the building with such rapidity that little could be saved. The orders of the firm for the spring and summer trade were completely destroyed. The building was insured and it is said it will be rebuilt.

GREENHOUSES BUILDING AND PROJECTED.

Brewer, Me.—Crook Bros., 14x27. DeKalb, Ill.—J. L. Johnson, range of houses.

Govanstown, Md.—I. H. Moss, three houses.

Detroit, Mich.—Gus H. Taepke, three houses, 28x175.

Sharon Heights, Mass.—O. L. Orr, one house.

LIST OF PATENTS.

Issued March 6, 1906.

- 814,483. Hedge Trimming Machine. Richard Smithers, Nortonville, Kansas.
814,595. Plant or Flower Pot. Alfred J. Eggleton, Dunedin, New Zealand.



Carman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse. Nonpoisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down mildew. \$1.50 per gallon. Also in quarts, half gallons and in bulk. Send for circulars.

PERFECTION CHEMICAL CO., Flushing, N. Y.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insure better service. Personal attention guaranteed. Twenty-five years' active practice. SPECIALTY "Working on the Failures of Others."

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building Washington, D. C.

Holds Glass Firmly

See the Point at PEERLESS

Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

FULL SIZE No 2



YOU WANT WE WANT ORDERS ADVERTISING LET US GET TOGETHER

WE ARE GIVING FLORISTS

MUCH MORE NICOTINE for their money, when purchasing "NICO-FUME" LIQUID, than has ever been furnished by any competing article.

Remember, "NICO-FUME" LIQUID contains **never less than 40%** nicotine, and is of exceptionally pure quality.

JUST LOOK AT THESE PRICES!!

$\frac{1}{4}$ Pint, 50c. Pint, \$1.50 $\frac{1}{2}$ Gallon, \$5.50. Gallon, \$10.50 5 Gallons, \$47.25

We are Also Furnishing the Following Advantages in "NICO-FUME" PAPER.

"NICO-FUME" PAPER is stronger per square inch than any other; is packed in special friction-top tins, preventing loss of strength by evaporation; is folded and punched, ready for use; is of a special size furnishing the best distribution of vapor; is of uniform quality.

PRICES: 24 sheets, 75c. 144 sheets, \$3.50. 288 sheets, \$6.50. 1728 sheets, \$35.10

FOR SALE BY SEEDSMEN

Manufactured by **THE KENTUCKY TOBACCO PRODUCT CO.** LOUISVILLE, KY.



HORICUM FOR
SAN JOSE SCALE

"The Day After Thanksgiving."

Flushing, L. I., N. Y., Nov. 25, 1904.

Mr. Benjamin Hammond, Fishkill-on-Hudson, N. Y.

Dear Sir:—I have used your "Grape Dust" for the last six years in all my Rose Houses and find it is the very best preservative against Mildew, and it also checks Green-fly and other vermin.

Very truly yours,

A. L. THORNE.

HAMMOND'S GRAPE DUST IS SOLD BY SEEDSMEN

"SOLUTION OF COPPER," "BORDEAUX MIXTURE,
GENUINE," SLUG SHOT, FOR SOW BUGS, ETC.

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish "PECKY CYPRESS"

Everything in PINE and HEMLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

VISITORS AT THE ROSE SHOW

See the Holly-Castle
CIRCULATOR

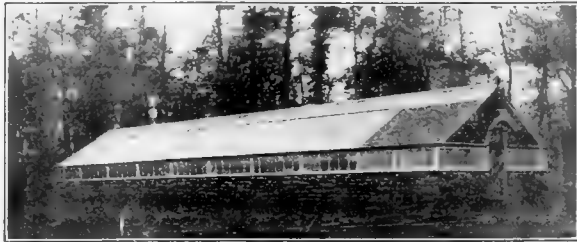
before leaving Boston

49 Federal Street

Tel. Main 2793

In writing to Advertisers kindly mention Horticulture

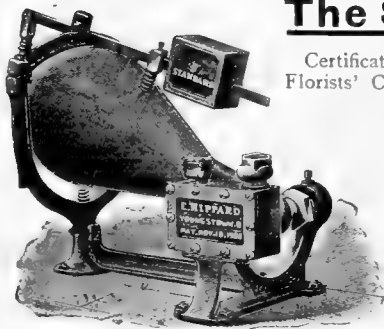
BUILDING A GREENHOUSE



is not a task for a mere carpenter. It's a thing that requires years of experience—the knowledge of materials—of requirements. We have that knowledge, we know the requirements.

HITCHINGS & COMPANY
Greenhouse Builders and Designers
1170 BROADWAY, NEW YORK

The Standard Steam Trap



Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

E. HIPPARD, Youngstown, Ohio

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE. 74 FRANKLIN ST. BOSTON

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

YOU WANT ORDERS
WE WANT ADVERTISING
LET US GET TOGETHER

SEND FOR CATALOGUE OF
**SCOLLAY HOT WATER
and STEAM BOILERS**

JOHN A. SCOLLAY

73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY



Greenhouse Material

Ask for our Special Catalogue No. 554 describing Boiler Tubes, Boilers, Tubes, as Lumber and Supplies of every kind from the Fifty Million Dollar St. Louis World's Fair.

CHICAGO HOUSE WRECKING CO.
35th and Iron Sts. CHICAGO

LET IT STRIKE YOU

★

FOLEY MFG. CO.
471 W. 22nd ST. CHICAGO.

GREENHOUSE MATERIAL

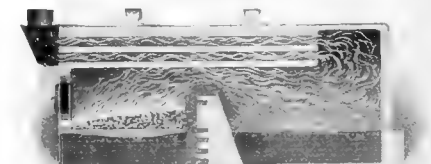
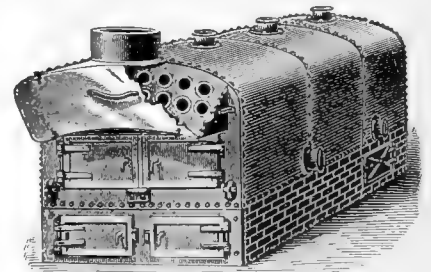
OF ALL KINDS
HOT-BED SASH VENTILATING APPARATUS
FITTINGS &c.
SEND FOR FREE ILLUSTRATED
NEW CATALOGUE

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

35 Erie Street. CHICAGO.



Boilers made of the best material; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

BY SLI-PING A
PEERLESS GLASS REPAIR CLAMP

over a cracked glass you protect your stock, save coal and glass. Do it now before the high winds play havoc with your roofs. \$1.00 will repair 150 lights. Ask your supply man, or

A. KLOKNER, Wauwatosa, Wis.

Endorsed by about 400 prominent florists.

GREENHOUSE MATERIAL

After you have tried "cheap material" and find that it is not cheap—try ours.

Our material costs a little more than that furnished by planing mills but it lasts much longer—as those who have tried both will certify.

Our large list of satisfied customers is our strongest indorsement.

If you want good material at proper prices—get ours. Estimates cheerfully furnished.

JOHN C. MONINGER CO.—Chicago
117 E. BLACKHAWK STREET

Standard Flower.. POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money.
W. H. ERNEST,
28th and M Streets, WASHINGTON, D. C.

STANDARD FLOWER POTS

Packed in small crates, easy to handle			
	Price per crate		Price per crate
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/4 " " "	5.25	60 8 " " "	3.00
1500 2 1/2 " " "	6.00	HAND MADE	
1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
800 3 1/4 " " "	5.80	43 10 " " "	4.80
500 4 " " "	4.50	24 11 " " "	4.60
320 5 " " "	4.51	24 12 " " "	4.80
144 6 " " "	.16	12 14 " " "	4.50
Seed pans, same price as pots.		6 16 " " "	4.50
Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y.			
August Rolker & Sons, Agts.,		31 Barclay St., N. Y. City.	

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE BY HAIL. For particulars address **John G. Esler, Saddle River, N. J.**

YOU WANT ORDERS WE WANT ADVERTISING
LET US GET TOGETHER

Interior view of three connected houses, each 24 ft. wide — Our Standard Iron Construction.



Erected complete and heated with the Weathered Sectional Boiler for Chatterton Warburton, Fall River, Mass.

Write him. Send for Catalog.

Weathered Company
46 MARION ST., NEW YORK

The Only Perfect Tomato and Plant Support

Made of Heavy Galvanized Wire

\$1.75 per Dozen

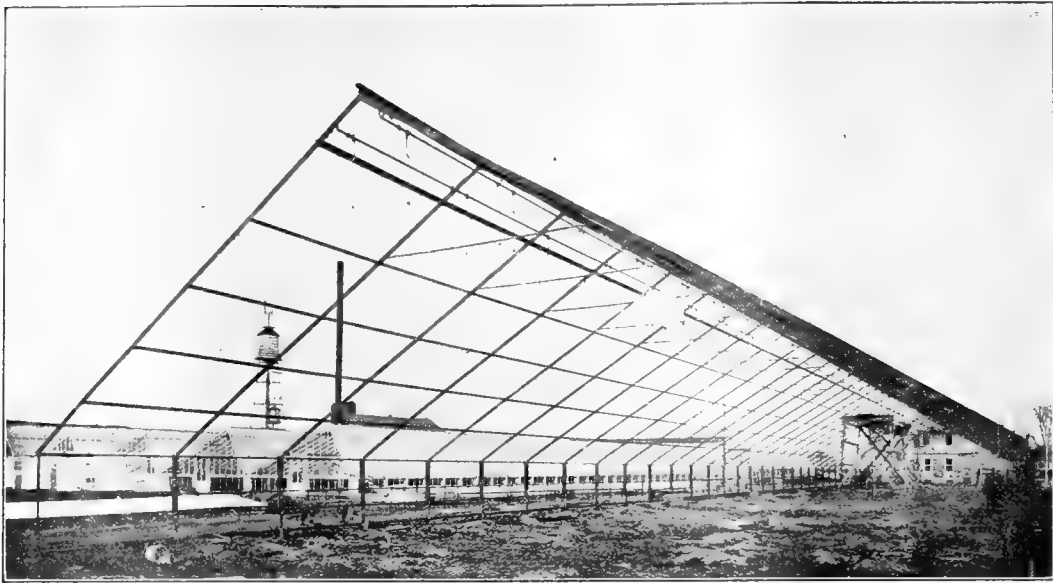
\$12.00 per 100



THE MODEL TOMATO SUPPORT.

Height complete	34 inches
" of bottom section	24 "
" " top	12 "
Diameter of circle	14 "

Manufactured by **IGOE BROS.** 226 North 9th St Brooklyn, N. Y.



This is the Latest Cut Flower House

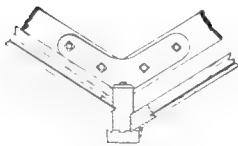
(Order taken last January)

This is quick work and goes to show it's not an all season's matter for us to erect an iron frame house

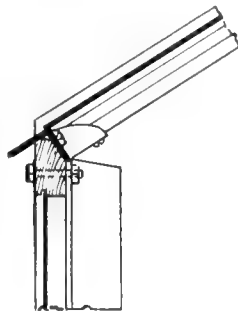
THIS is a fine example of our iron frame construction, standing perfectly rigid and fully self sustaining. This house is 45 feet 6 inches wide and about 300 feet long, and is being erected for the Cottage Gardens Company, the famous carnation growers. They intend it solely for seedlings.

The benches used by Mr. Ward are 3 feet 6 inches wide and the house is built to accommodate 8 of them. That's a tremendous span—46 feet for a rafter only 3 inches deep and 5-8 inches thick, but it's possible for these reasons: The way we tie these houses together; the extra bracing and rigidity given by the sash bar clasps, bolted to the galvanized angle iron eave plate; the ridge bracket binding together the rafters and bolted to the ridge; the use of the small purlins at frequent intervals, really plotting the frame work out in squares of bracings, while making possible the use of the smallest sash bar made.

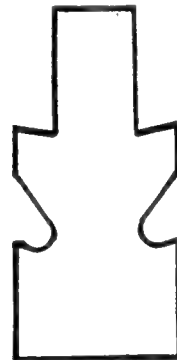
Such a house is a revelation in its lightness and is practically indestructible. The repairing of a sash bar is as easy as replacing a shingle on a roof. The iron frame house is the house of the future. All over the country the growers are beginning to use it. The economy of the large house is long since a settled matter. It now settles down to the pure matter of economics; the question of 25 per cent. less fuel expense, the larger volume of air as a protection against sudden changes of temperature and the item of decreased repairs.



RIDGE BRACKET



ANGLE IRON EAVE PLATE



ROOF BAR FOR
IRON FRAME
GREENHOUSE.

LORD & BURNHAM CO.

Greenhouse Designers and Manufacturers

1133 Broadway, cor. 26th St., N. Y. Boston Branch, 819 Tremont Bldg.

HORTICULTURE

Vol. III. MARCH 24, 1906 No. 12



VIEW IN F. R. PIERSON COMPANY NURSERIES
Scarborough, N. Y.

Devoted to the
**FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,**
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00

Select List of Hybrid Perpetual and other ROSES

FOR OUTDOOR PLANTING

We make a specialty of preparing Roses for outdoor planting, our stock is all field grown, either American or imported from England or Ireland. The plants (unless otherwise specified), have all during the winter months been potted up into 5 or 6 inch pots according to the growth of the variety, they have been stored in cold houses where they will break away naturally making it the best possible stock for you to sell to your retail customers.

	Per doz.	Per 100.		Per doz.	Per 100.		Per doz.	Per 100.
Abel Carriere.....	\$3.00	\$25.00	Earl of Dufferin.....	\$3.00	\$25.00	Marie Baumann.....	3.00	\$25.00
Alfred Colomb.....	3.00	25.00	Eclair.....	3.00	25.00	Marshall P. Wilder.....	3.00	25.00
Alfred K. Williams.....	3.00	25.00	Etienne Levet.....	3.00	25.00	Meg. Merrilies.....	3.00	25.00
American Beauty.....	3.00	25.00	Eugene Furst.....	3.00	25.00	Merveille de Lyon.....	3.00	25.00
Anna de Diesbach.....	3.00	25.00	Fisher Holmes.....	3.00	25.00	Mrs. John Laing.....	3.00	25.00
Ards Rover.....	3.00	25.00	Francois Michelin.....	3.00	25.00	Mrs. J. S. Crawford.....	3.00	25.00
Anne of Gierstein.....	3.00	25.00	Frau Karl Druschki.....	3.00	25.00	Mme. Charles Wood.....	3.00	25.00
Baroness Rothschild.....	3.00	25.00	Gen. Jacqueminot.....	3.00	25.00	Mme. Gabriel Luizet.....	3.00	25.00
Baron de Bonstettin.....	3.00	25.00	Gloire de Lyonnais.....	3.00	25.00	Mme. Victor Verdier.....	3.00	25.00
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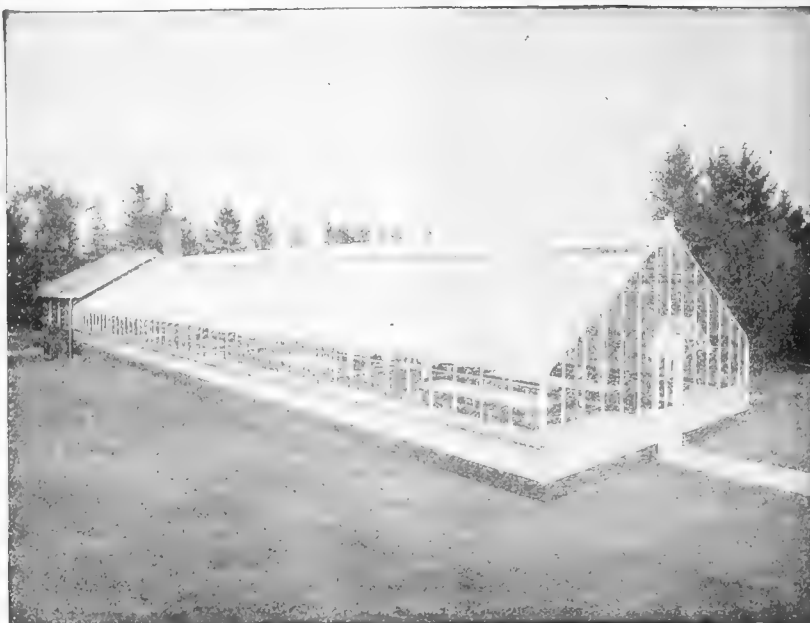
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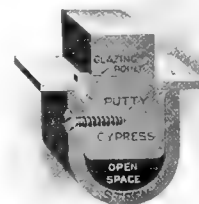
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Buddleia variabilis magnifica

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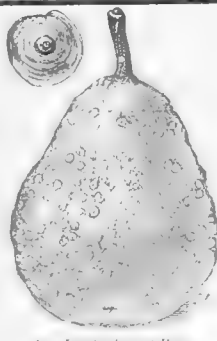
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Coniferous Trees and Shrubs in England and Scotland

While in England and Scotland last summer I visited many fine gardens noted for coniferous trees and shrubs. We have a grand collection of these at Wellesley, and my object was to compare specimens. I had with me a list of what we have, their height, spread and girth, so that I was in a good position to judge. Conifers, as a rule, do poorly near cities, still I was not prepared for the disappointment I met at Kew. It was only among yews, and their allies, the torreyas, and allied South American coniferæ, and pines that I found presentable specimens. Nowhere near London did I see anything striking. One has to get about twenty miles out. On the Lincolnshire wolds, at Sir Barclay Sheffield's place, I saw the finest specimen of *Thuja gigantia* anywhere. It was very regular in outline, pyramidal, and nearly sixty feet high. There was also a very ordinary specimen of our common white pine. Whether it is scarce in Britain I do not know, only I did not happen to see any good ones. Our white pine is, in my opinion, the handsomest of all northern pines.

Through the kindness of Messrs. Veitch I had introductions to the superintendents of some of the finest estates in Scotland. I took in the old city of York on my way, and the famous Backhouse nurseries. I had visited the nurseries some twenty-five years before, but since then the city of York has, like the rest of England, become a manufacturing centre, and so spread out as to almost take in the old nursery. The bad effects of soot were everywhere visible. Messrs. Backhouse are moving farther into the country. I took some notes, and may refer to it later.

I visited Hassledon Hall, in the vicinity of York, famous for its Italian garden, which is made up, almost wholly of clipped English yews. It had a massive and imposing effect, and this is all I can say about it. I arrived in Edinboro in time to see the great summer exhibition. It was the finest show I have ever seen anywhere. The indoor and outdoor fruit entries were especially well filled. I took copious notes and may at another time refer to them.

I went to Dalkeith Palace next, but did not see anything in my line very striking. There was a fine lot of fruit houses, and an excellent vegetable garden, clean and well kept. I was introduced to a poor specimen of *Torreya nucifera*, which was expected to stick me, as it was not labelled. It is said to be tender. We have fine healthy specimens of it at Wellesley.

Oxenford Castle was next visited. I shall always remember it with pleasure, as here I received the kindest treatment from both Mr. and Mrs. Smith, gardener and his wife—an unusual experience in my travels; with this exception, I cannot say much for the hospitality of the craft. The collection of evergreens was small, and evidently not specially cared for, with the exception of a few specimens of *Cupressus Lawsoniana*, *Libocedrus decurrens*, and *Thuyopsis borealis*, which



ABIES NORDMANNIANA.

were given a chance to show their beauty. For the rest, they might grow together, and spoil each other or be backed by deciduous trees, and so become one-sided. I would not mind this—this grouping for effect—if in some part of the grounds, specimens had been given a chance to develop their full beauty.

I went to Perth and to Scone Palace, noted as being the place where David Douglas served his apprenticeship, and there are two magnificent specimens of the Douglas spruce which he planted. Scone was the only place I visited that gave special attention to specimen coniferæ. I did not think, however, the plan adopted here a satisfactory one; it was anything but effective. A flat square two to three acres in extent was given up to specimens, massed in on three sides by forest trees, and on the other the greenhouses and vegetable garden. They were planted in lines, just as if they wished to have them convenient, and handy to look at as individuals. There were fine specimens of *Picea Sitchensis*, *Abies Nordmanniana*, *P. excelsa*, *Abies Cephalonica*, *Pseudotsuga Douglasii*, *Abies pectinata*, *A. grandis*, *A. nobilis*, *Thuyopsis borealis*, *Cupressus macrocarpa*, *Tsuga Albertiana*, *Thuja gigantea*, *Pinus monticola* and *Abies Pinsapo*. Our American concolor firs, Colorado Blue spruce and nearly all the Japan firs and spruces did very poorly. After seeing such fine speci-

mens of the others I was surprised at the failure of these, and I found it so everywhere.

There were magnificent specimens of the Californian redwood, *Sequoia Wellingtonia* and *S. sempervirens*, but these are out of the question with us. They will not live at Wellesley.

Ochtertyre, Crieff (Scotland), was next visited. This was the most beautifully situated of all the places I saw. It pained me to see the place neglected. This used to be a noted place, but lack of money and worse—lack of interest—gives it a deserted look. The walk along the mountain side one lovely sunshiny day was enchanting, and although I saw practically nothing of the place, I was well repaid by the scenery. The roadside above me was plentifully planted with Norway spruce, Douglas firs, Nordmann firs, *Abies nobilis*, and *Abies grandis*. They were magnificent in size but, closely planted, had lost their beauty. It must be massive and imposing to look from the opposite hillside, with water, waterfowl, and an old water mill between—an artist's dream. Below me, far below, I could look over the tops of the largest of them—some over a hundred feet high—large specimens of Douglas firs, Nordmann's, and Norway spruces, crowded and neglected with no more right to grow than the meanest forest tree.

Drummond Castle next, and this was a surprise. We drove for three miles through a beautiful avenue of beeches, which made what appeared at a distant view, and only, and always in the distance—a continual arch. Going round the old castle to the courtyard I met a piper, who in a mixture of Gaelic and broad Scotch, tried to direct me to the greenhouses, where I should find the gardener. The difficulty was overcome by the gardener coming into view. The surprise was the Italian garden—it is really a combination of Dutch and Italian statuary and pattern flower beds mixed. The flower beds are in regular and corresponding designs and in solid colors, for distant effect. It is best seen from the courtyard as a whole. The effect is almost lost when walking through it.

Going up to Murthly Castle is an avenue of *Abies nobilis*. It is perfectly straight and about a mile long. The trees are young yet, but if they are well taken care of, and attain the dimensions of others seen—over 100 feet high—the effect should be wonderful in 30 years time. Change of ownership, or rather a succession of heirs affects large places like Murthly. We find part of one plan not finished, and other ideas commenced and not carried out, so we come across a planting here and there, with no semblance of order. There is a short avenue of *Abies grandis* which well bears out the name, but why it is there, one cannot see. Another of *Araucaria imbricata* also without any reason; still another of *Wellingtonia gigantea*, shut in across one end by a row of beautiful specimens of *Tsuga Pattoniana*. *Araucaria imbricata* and *Wellingtonia gigantea* were both disappointing. They were rather new things when I left home 23 years ago, and much was expected of them. As trees, they are short-lived or, to say the most, become untidy and straggling, before reaching maturity. *Tsuga Albertiana* here takes the place of our native hemlock; I would defy anyone to tell the difference looking at them. There must be physiological differences, not visible, for the tree is not hardy in the eastern states. There were two trees of our native hemlock on the place, and asking what the difference was, as they observed them, was told that *T. Albertiana* never branched, whereas *T. canadensis* almost always did. *Tsuga Pattoniana* which we have

only as a small tree, being somewhat new to us, is here a very handsome tree. Its "outstretched arms" or main branches covered with pendant secondary ones, much in the way frequently seen on Norway spruce, made a lovely picture. The Douglas spruce, the Norway, Nordmann's fir, the balsam and silver firs do exceedingly well and many specimens are over 100 feet high. The Japan firs and spruces and also our Rocky Mountain kinds do not thrive satisfactorily.

In all the places I visited put together I did not see as many species and varieties of coniferous trees as at Wellesley, nor as fine specimens.

J. D. Hatfield

Mechanical Watering

"Aye free aff han' your story tell
When wi' a bosom crony,
But still keep something to yoursel',
Ye scarcely tell to ony.
Conceal yoursel' as weel's ye can,
Frae critical dissection,
But keek thro' every ither man
Wi' sharpen'd sly inspection."

Mr. Louis Wittbold must surely have read the above lines and kept it in his mind when delivering his paper before the Detroit Florists' Club. The readers of HORTICULTURE are probably as wise after reading his remarks as they were before. Before reading the article I expected I was going to get some insight into the workings of the mechanical watering machine. How lovely it looks on paper! Theory may be all right in mechanical greenhouse watering but when put in practice "It's all bosh." Sometimes a man on the end of a hose is a dangerous thing; would the mechanical man be sensitive enough to find out dry spots and see red spider? What a dream.

A mechanical watering and syringing apparatus was used in an adjoining town here, many years ago and I think the proprietor went out of business. Outside watering can be accomplished successfully by mechanical means, but inside—never. A few years ago there was a craze for having cement benches built to hold water, stretching chicken wire over them, having moss laid on the wire before putting in the soil, then planting carnations. How many of them are in use today? Certainly we are in a progressive age but at some things our progress halts. I quote one of his (Mr. Wittbold's) paragraphs: "Looking back at our predecessors we smile and pat each other on the back and feel our superiority to such a degree that we generally find it necessary to go out and buy a size larger hat." Some of the old fellows who have passed to the great beyond have given us points which we are using today, having discarded them in our haste for something new and, finding the latter all wrong in practice, have gone back to the old ways. Steam boilers and mechanical stokers are a great improvement over the old flues, but until we get a mechanical waterer with gray matter enough to work right let us hang on to the watering can and the hose.

I think if "Job" has any medals left he should send one out to Chicago by registered mail.

Robert M. Brown



PINUS AUSTRIACA.

Symbiosis and its Relation to Horticulture

In these days of horticultural advance we hear much of the sterilization of soil and fighting the fungus diseases in general, and but little of symbiosis, which is the association of two organisms which live together in intimate connection, both contributing to their mutual welfare. Greater interest should be given this subject, and evidence should be advanced toward the possible advantage of using the principle in horticultural methods. We unconsciously take advantage of the method when we transplant evergreens with balls of earth and find greater success attending this method than where the roots are not accompanied with soil, or become subject to even slight drying influences. There are some curious seeming contradictions which, however, are doubtless to be explained away as we learn more of the subject.

In a nutshell the principle is that of the natural replacement of the ordinary nutriment and moisture-absorbing root cap of green leaved plants with the mycelium of certain species of fungi who in return for absorbing from the soil the principals of moisture and nourishment and turning these ingredients over to the green leaved plant, are supplied in exchange with certain principals of nourishment from the sap of the plant itself. All of the blue berries, heaths, rhododendrons, daphnes, empetrums, gerestas, a great number of conifers, seemingly the entire oak family and numerous willows and poplars, we know to be dependent for nutrition on the assistance of various fungi, though the full life history and identification of the species of these fungi is yet to be determined.

As regards the oaks and poplars, all the roots of these genera are completely surrounded by the matted mycelium growth of certain types of fungus and so closely woven is this covering that there is no well defined line of demarkation between this and the adjoining layers of purely natural growth. Through this matted fungoid area are minute absorptive or feeding cells which perfectly replace root hairs in their peculiar function. Furthermore there is a distinct interchange of fluids between this mycelium and the true hard wooded plants. Under such circumstances it is not a difficult matter to account for the comparative ease in transplanting oaks and poplars because of their wide distribution whereby it is difficult indeed to find areas that are not thoroughly impregnated with spores of the necessary fungoid associates, and provided every protection and moisture are supplied during digging and transportation. The beech, however, is a less cosmopolitan tree and with but few specific forms, showing a greater dependence on the exercise of care in keeping the roots moist during transportation as well as so far as possible seeing to it that there is a fair degree of soil attached to the roots during the transplanting process. A failure to observe these requirements always results in disappointment to the planter except in occasional cases where by chance the

tree is placed in a situation that has already become impregnated with the desired fungoid mycelium.

Many, if not all, of the conifers are dependent largely upon this means of obtaining nutriment, and in this family the mycelium growth is frequently quite conspicuous. Evergreens provided with balls of earth in which they have naturally grown suffer least loss in transplanting. In this we get a world of suggestion as to why certain plants can only be moved with difficulty wherever the roots lose all of the attached soil or suffer in the least from drying influences. We can also understand from this why rhododendrons fail to succeed in limestone soils when we know the inveterate antipathy of limestone to fungi in general; we understand why leaf mold is to a certain extent indispensable to the cultivation of these plants that the necessary source of fungoid growth may be present and as well the need of good balls of earth in transplanting with the plants themselves in order that the fungus in its living and vigorous form may accompany the plant in its travels. It seems that while the first roots of seedlings or cuttings are provided with the usual root cap, the vigorous and healthy future growth of the plant is dependent on the combination of two seemingly distinct forms of vegetable life.

While the above facts may not be generally known yet they are not unparalleled in the vegetable kingdom, for lichens as a class are absolutely dependent on the association of two distinct vegetable divisions, that is, the algæ and the fungi, wherein each is in the closest association and dependence on the other for their respective vegetative requirements, this partnership extending even to the spores. On the other hand we have ample evidence of late of the importance of certain low forms of animal or bacteria life to the healthy growth of such leguminous crops as alfalfa and clover, though the efforts towards an artificial dissemination of this through the so called bacteria cultures have not been crowned as yet with unqualified success.

The point that I am seeking then to bring out is that of giving the importance of the principle of symbiosis careful thought and the danger that may result from destroying fungoid types which may be beneficial and which if destroyed by soil sterilization may be to the detriment of certain classes of plants which depend on them for existence. Soil sterilization undoubtedly is of the highest value in connection with the cultivation of many green house crops, such as the carnations, the rose family in general, as well as many vegetables, but we get from this a hint that it may be an evil when practiced with certain classes of plants whose absolute existence is dependent on the assistance of fungi in their healthy growth.

J. Woodward Manning

Cerasus Japonica pendula rosea.

The spring is coming and the time of planting is near. Among the most beautiful trees and shrubs are the various species and varieties of *Prunus*. Nothing can be more beautiful and graceful than those delicate blossoms. Volumes might be written of them. No gardens of any size should be without some form of these most beautiful plants. Some are fitted for the lawns, others for general decorative purposes. One of the most beautiful, especially for the lawn, is *Prunus pendula*, known in the garden catalogues as *Prunus cerasus pendula rosea*, in this country a beautiful small tree of pendulous habit with flowers of several shades of color from nearly pure white to deep rose, usually growing from 10 to 12 feet high, with long, feathery branches drooping to the ground and covered with thousands of delicate single flowers presenting a most fairy-like appearance. It is said to be a native of China and one that is most favored in the festivals of the cherry blossoms. During the season of the cherry blossom thousands in Japan make a holiday to go to these gardens while the cherries are in bloom.

Prof. Sargent while in Japan saw specimens of these trees from 50 to 60 feet in height in old temple gardens in many cities of Hondo with wide spreading fountain-like heads, but did not see them in the wild state. *Prunus subhirtella* which we have from the wild state near Tokio in Japan is classed by some botanists as of the species. It is certainly nearly related, and while not of the same habit of growth the fruit and flowers are similar and with the same profusion of bloom, but more dense and upright in its habit.

Prunus pendula rosea or *Japonica pendula rosea*

comes true from seed and makes a more erect pendulous tree than when grafted on the common English Mazard cherry. The tree is perfectly hardy in the vicinity of Boston where many fine specimens can be seen. The introduction of this plant in New England I think is due to the Holland Nurseries around Boskoop about 28 years ago.

Jackson Dawson

Are You a Reader?

The direct gain from reading one item or one advertisement may more than balance the dollar you pay for a year's subscription to *HORTICULTURE*.

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AN ILLUSTRATED JOURNAL

DEVOTED TO THE
FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager.

What the
Rose Number did

How did our Rose Edition of last week strike you? As soon as that splendid colored rose supplement made its appearance HORTICULTURE's subscription list began to feel the momentum. The relationship of that single issue with its forty-eight pages of valuable reading matter and equally interesting advertising, to the cost of a year's subscription to HORTICULTURE, is worth taking into consideration, is it not?

Better protection
for the trees

We are simply delighted to read of the frequent instances in various parts of the country where electric light companies, trolley and gas light concerns have been brought to justice and compelled to pay substantial damages for injury to the wayside trees. The sentiment in favor of better protection to trees on the public highways is rapidly growing and soon the butcherings done with impunity in recent years will be impossible of repetition.

Dayton's out-
door exhibition

We would refer again to the proposed out-door exhibition in connection with the S. A. F. convention at Dayton next August. The advanced sentiment in Dayton as regards home adornment will do much to make this a profitable venture in a fruitful field for the dealer in ornamental nursery stock and hardy garden material. We learn that already civic pride has been stimulated by the announcement of the plans of the society and that the people of Dayton are preparing to take a hand themselves and it begins to look as though the exhibiting will be by no means one-sided. It behooves the progressive nursery man to take advantage of the opportunity.

Boston greets
the rosarians

As we go to press with this issue Boston visitors are arriving and the hustle and bustle of unpacking and staging the most ambitious rose show ever attempted in this country is on. It is an event to

which the horticultural fraternity of the Hub have been looking forward with intense interest and everything has been done that could be done in the way of preparation by willing hands spurred on by willing hearts. It may be many years before the Boston fraternity shall again have the honor and pleasure of entertaining the American Rose Society. Wherever it may go in its wanderings it can feel assured of the hearty good-will of the Boston rose lovers whose loyalty to the Queen of Flowers has been newly awakened by these visits of the brethren and to whom it is fondly hoped has been communicated in these delightful events some measure of that inspiration which makes for enthusiasm and uninterrupted success.

Opportunities in
landscape work

The ornamental treatment of public and private grounds is a subject of rapidly growing importance not only in the older-settled sections of our country but also in the newer communities where we have become accustomed to look upon these more refined accessories to human existence as of minor interest. No more tempting outlook exists for the young man with the proper artistic temperament than is offered in the landscape gardening possibilities of the immediate future. There is abundant room for hundreds of such to attain emolument and honor in this delightful pursuit. Let it be fully realized, however, that the taking of a couple of years' course in a college and hanging out of a shingle will never, in itself, make a man a success in landscape work. The Downings and the Olmsteads of the future will, no doubt, have all that, but they must have much more besides.

The florists'
interest in
hardy material

We have devoted a large part of this issue of HORTICULTURE to topics associated with out-door decorative planting. There is a growing appreciation of hardy material on the part of the public and that department of the gardeners' avocation is rapidly gaining the ascendancy, as it should; not that the soft-wooded material so long favored is to be abandoned in garden work but that it is to be used with better judgment and in its proper relation to other things much better adapted in many ways for certain desired effects. The judicious floriculturist will take note of these tendencies of the times and prepare himself to take advantage of business conditions as they develop on these advanced lines. The only sufferers in such periods of transition are those who stand still and find fault instead of grasping the opportunity. A good selection of the choicer sorts of hardy shrubs and herbaceous perennials, also ornamental lawn and street trees, should be a part of the stock of every local florist who has or can secure the land necessary for their cultivation. They will sell as fast as they can be produced, for some time to come and, in addition, there is the by-product of flowers which can usually be turned to good profit.

INSTRUCTION IN LANDSCAPE WORK.

Amherst, Mass., March 5, 1906.

Editor of HORTICULTURE:

Dear Sir:—I note with much interest your editorial regarding the course of study in landscape work. I think this is a good project and ought to be energetically carried out. This may be a good time, however, to call your attention to the fact that we are giving exactly this kind of instruction in the Massachusetts Agricultural College. We have a course of training in landscape gardening which covers the field as fully as it is possible to cover it in a two years' college course. This takes up the design of grades, roads, drainage, planting plans, nurserymen's estimates and everything of that sort. Besides that, there is thorough instruction in the propagation of plants, general horticulture, surveying, botany, entomology and the other sciences with which the landscape gardener ought to be familiar. The courses in floriculture, arboriculture and forestry are also open to the men who are studying landscape gardening and are taken up by nearly all of them.

Sincerely yours,

F. A. WAUGH.

BOOKS RECEIVED.

The annual report of Robert Aul, park commissioner for the city of St. Louis, is received and is perused with much interest. The volume is a model in typographical work and binding. Every second page is a half-tone illustration of park features and there are three large maps showing Forest Park as it was, the same when used as the site for the World's Fair, and again as restored under plans submitted by the Exposition Co. The total cost of purchase, improvements and maintenance of the St. Louis parks up to the present time is given as \$4,326,035.73.

"Evergreens, How to Grow Them" is a volume of one hundred pages by C. S. Harrison, president of Nebraska Forest Association and author of the Paony Manual and other books on garden topics. A mutilated land; The mission of the conifers; Evergreens for profit; Raising evergreens from seeds; Digging and hauling evergreens; Collecting evergreens in the Rockies; Foreign evergreens in America; are the titles of some of the chapters. The text throughout is that of a man deeply in love with his subject, is quaintly practical and sentimental by turns and deserves to be widely disseminated for it will set the people a-thinking, wherever it is read.

"A JOURNAL WORTHY OF A GLORIOUS ART."

Accept my hearty congratulations and my assurances of deep interest in HORTICULTURE and my feeling of satisfaction that at last we tillers of the soil are having published for us a journal worthy of the glorious art to which we have allied ourselves.—D. A.

We are indebted to Mr. F. W. Kelsey for the striking illustrations of *Pinus Austriaca*, Nordmann's fir and specimen *rhododendron* in bloom which adorn this issue of HORTICULTURE. They are from Mr. Kelsey's catalogue for this year.

PERSONAL.

John Bryan has been appointed head gardener at the central prison, Toronto.

Grobba & Wandrey of Mimico, Ont., have purchased the greenhouses of Thos. Plumb at Toronto.

F. H. Kramer of Washington expects to go out on the road with his rose, Queen Beatrice, this spring.

G. Tait has been appointed superintendent to P. Lehman, who is building a new place on Ocean avenue, Elberon, N. J.

A son was born to Mr. and Mrs. J. S. Fenrich, New York, on March 18. Mrs. Fenrich is the daughter of A. Le Mout.

Samuel S. Pennock of Phila. left for a visit to New England on the 20th, to serve as judge at the rose show in Boston on the 23d and 24th. Adolph Farenwald, George Burton and a number of others also attended the Rose Exhibition.

Arthur Schnutenhaus, a florist in the employ of Ed. Schiverin, nurseryman of San Francisco, one morning last week was held up, robbed of every cent he had and then ordered to walk home and not look back or his life would be the penalty.

R. R. Hughes, who for the past two years was superintendent for the late J. A. McCall, Elberon, N. J., resigned his position a few weeks ago and has joined forces with a well-known New York architect, and launched into the landscape business.

C. N. Ruedlinger of Hartford, Conn., has taken a position as forester on an estate in Minneapolis, Minn. On leaving Hartford, he was presented with a gold chain and appendage by the members of the Florists' Club and other friends, by whom he was held in high esteem.

Charles E. Keith has again been elected superintendent of the parks of Bridgeport, Conn., to succeed Stephen D. Horan. Mr. Keith held the position for a number of years, during which he demonstrated his eminent qualifications for the work, and we congratulate Bridgeport on his reinstatement.

Among the early arrivals in Boston for the rose exhibition are Fred. Sander and T. Mellstrom, of Sander & Sons, St. Albans, England, U. G. Scollay and E. A. Munro, Brooklyn, N. Y., George C. Watson, Philadelphia. Mr. Scollay covered himself with glory by catching a pickpocket as he alighted from the train in Boston on Wednesday morning.

M. H. Oppenheim, who already owns one of the finest places in Elberon, N. J., Castlwall, has now taken over Shadow Lawn, the summer home of the late J. A. McCall. This is one of the finest estates along the Atlantic seaboard, no expense having been spared on the landscape work. Wm. Webb, late gardener to Colgate Hoyt, has been engaged as superintendent of Shadow Lawn.

SAN FRANCISCO NOTES.

The State Board of Horticulture has declared a quarantine against Florida and Louisiana to prevent the importation of any nursery stock from either of these states. A quarantine had previously been placed against any citrus stock from these states, but it has been decided to bar out deciduous stock as well.

Selecting, packing and shipping Hannah Hobart carnation cuttings is keeping Superintendent Peterson and several assistants busy overtime these days at the John H. Sievers Company's nursery. The late advertisement in HORTICULTURE that the Hannah Hobart would be generally distributed about this time to all applicants was astonishingly fruitful. Orders for cuttings amounting to between eighty and ninety thousand have been received.

The March monthly meeting of the California State Floral society was held last week. Some officers for the ensuing year were nominated, but the whole matter was finally passed to next month's meeting, when the full list of nominations will be made and the election will take place. A fine exhibition of wild flowers and a fine talk about them in all their variety was given by Mrs. W. S. Chandler, an enthusiastic floriculturist and member of the society.

The Agricultural Department at Washington has determined to ascertain what can be done with the pistache nut in this state and has been in communication regarding the pistache nut with California's great nut culturist, Mr. C. M. Wooster, who will try to establish here the pistache industry. The immediate outcome of this is an arrangement to send 10,000 pistache nut trees, natives of the Nile region, to Mr. Wooster. Five acres will be planted at San Martin, Santa Clara county, and five acres at Lindsay, Tulare county. The value of the pistache nut is from \$1.25 to \$1.50 a pound. The nut is used in making flavors by confectioners and others.

OBITUARY.

C. E. Brady of the firm of Brady & Son, Eureka, Ill., died of heart failure on March 9. He was 63 years old.

Perry Finn died at his home in Carthage, Mo., on March 10. He was 68 years old. His wife and son survive him.

Edward Kitchenmeister, of New Brunswick, N. J., died of pneumonia on Saturday, March 17. Mr. Kitchenmeister had greenhouses at Highland Park, and store in the city. He leaves a wife and five children.

Della M., wife of A. L. Rogers died at Chaumont, N. Y., on March 7. Her husband and two daughters survive her. For many years Mrs. Rogers has held the office of vice-president of the Rogers Bros. Seed Co.

Two new varieties of *Begonia semperflorens* are well-spoken of by those who have seen them. They are *Berna*, with dark foliage and red flowers, and *gracilis luminosa*, with very dark leaves and deep red bloom.

NEWS OF THE CLUBS AND SOCIETIES.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS — EXECUTIVE MEETING AT DAYTON, OHIO.

The executive board met in Annual Session at Dayton, Ohio, on March 5, 6, 7. Extending over three days, the meeting was a very industrious one and many subjects of vital interest to the society were debated at much length. All the members were present except Treasurer Beatty, who sent a telegram regretting inability to attend. Messrs. E. G. Hill and John A. Evans of Richmond, Ind., George Asmus of Chicago and most of the local florists of Dayton were present during a portion of the deliberations of the Board.

Among the matters of general interest on which action was taken were the two exhibition projects—one an outdoor exhibition in connection with the convention at Dayton, in August, 1906, and the other the national flower show approved at the convention in Washington, last August and now proposed for the spring of 1907.

The scope of the outdoor exhibition comprises groups of conifers, also deciduous trees and shrubs on the grounds adjoining the pavilion in the County Fair Grounds where the sessions of the convention are to be held, also beds of cannas, asters, geraniums, dahlias, etc., and hardy herbaceous plants, including novelties, all to be provided for in a special reservation favorably located in the Fair Grounds. The result of the discussion of the proposed National flower show was a resolution to have the original committee continue the work of securing a guarantee fund of \$10,000 as a preliminary to the further continuance of the preparations and to have a competent committee prepare a draft of proposed prize schedule. The question of location of the exhibition was left open.

The program for the sessions at Dayton provides for the following: Opening session at 2 P. M., on Tuesday, August 21; President's reception in the evening.

Essays and discussions at the forenoon sessions of Wednesday and Thursday on "Recent Improvement in Retailers' Methods of Offering Flowers"; "The Ideal Private Gardener and His Work"; "Teaching Horticulture in the Public Schools"; "The Best Method of Marketing the Product of the Wholesale Plant and Flower Growers." This latter will come in the form of prize essays, for which President Kasting offers prizes of \$20, \$15 and \$10.

On Wednesday evening an illustrated lecture on some topics connected with out-door planting.

On Thursday evening a general discussion on the proposed National Flower Show.

On Wednesday afternoon the bowling events, under the management of the sports committee, George Asmus of Chicago, chairman.

Thursday afternoon is reserved as Exhibitors' Day and no other business or entertainment will be permitted on that afternoon.

Friday will be given to the Dayton Florists' Club for such use as they may decide upon.

The exhibition rules were amended so that the trade exhibition shall remain open continuously throughout

the sessions unless it is found to interfere with the meetings in which case the president may direct its temporary closing.

Favorable action was taken, providing for co-operation in the matter of parcels post improvement as advocated by the Postal Progress League, and in the campaign to secure a discontinuance of free seed distribution by the Department of Agriculture.

A committee was appointed to confer with the authorities of the Agricultural Colleges and secure if possible, better facilities for horticultural education for young men, and to provide for a series of practical lectures by competent representatives of the horticultural profession.

Action was taken under the instructions given by the Society at Washington last year to provide a badge book and corresponding numbered badges for the use of members at Dayton on a plan similar to that in use by the Nurserymen's Association.

Amendments to the by-laws relative to the method of electing officers at the annual meeting were drafted and will be presented for consideration in due time as provided in the by-laws.

The secretary was instructed to offer free exhibition space to those wishing to display bulbs of sorts not yet grown in this country in commercial quantities.

The usual appropriations for medals to be awarded through other societies during the coming year were made, inclusive of one bronze medal to be awarded through Vice-president Altick to the public school children of Dayton.

It was voted as the sense of this Board that in all future conventions after that to be held in Dayton the net proceeds from the trade exhibition be divided equally between the national and the local organization and not turned over entirely to the local organization as has been customary heretofore.

A telegram was sent as follows:—

"Hon. W. W. Cocks,
House of Representatives, Washington,
D. C.

"The directors of the S. A. F., now in executive session, Hotel Beckel, Dayton, Ohio, note your motion in House Committee on Agriculture and congratulate you on successful stand you have made against the free seed distribution. Can any of us help you by coming to Washington?"

"EXECUTIVE COMMITTEE."

At a later hour the following reply was received:

"Washington, D. C., March 5, 1906.
"Executive Committee, American Florists,
Hotel Beckel, Dayton, Ohio.

"Message received. Would be pleased to see any or all your committee. Arouse public sentiment through country is best plan; your approval appreciated."

"WILLIAM W. COCKS."

The committee on final resolutions presented the following, signed by Theo. Wirth and E. V. Hallock and same was adopted by a unanimous vote:

"We, the members of the Executive Committee of the Society of American Florists and Ornamental Horticulturists in meeting assembled, wish to state that we consider the selection of Dayton, Ohio, by the Society as the next meeting place for the convention

a most fortunate inspiration. Any member who had any misgivings on this score, has had them entirely dispelled—and in place of doubt has become enthusiastic as to the successful outcome of this convention.

"A Convention Hall of ample size to accommodate all trade exhibits, and to display them to better advantage than ever before has been secured. A circular building on high ground, with large windows, nine blocks from the center of town, insuring delightful conditions at all times. Surrounding ground that will display the outdoor exhibition to great effect, we feel that everyone will hereafter regret if the necessity arises to abandon this interesting outdoor feature in the future.

"Dayton, located in the center of the Middle West, is a revelation to many of the Eastern and Western members; surrounded by one of the richest and most beautiful sections of country in the entire United States. Agriculture, Pomology, Horticulture, Civic and Home adornment are carried to as high a place as anywhere in the world.

"The deliberations of this body were most ably and efficiently presided over by our new President, Mr. William F. Kasting, and the energy and good judgment he has shown in these proceedings will insure an interesting and successful Convention.

"The Committee extend their thanks to the resident members, Messrs. Ritter and Altick for their energy and kindness during the sessions of this Committee.

"It also wishes to express its appreciation for the kindness and goodwill shown them by Mr. Patterson, whose offers to help will make the Convention a great success; we are sure it will be highly appreciated by the Society next August, and whose support will insure our next Convention to become the banner convention in the history of the Association.

"The committee also wishes to extend to the local florists its thanks for their interest and hospitality, shown towards them and the coming Convention. We feel gratified that they agree with us that our National organization is not furthering the interests of the commercial side of our profession alone, but it is the means of promoting the Florists', Gardeners' and Horticulturists' interests in general, and that in coming to Dayton, we can be of as much help to them, as they so kindly offer to be to us.

"Finally, the Committee wishes to thank the business men and florists of Dayton, who so delightfully entertained them. The perfectly harmonious deliberations of this Body, and the extreme good feeling engendered is highly gratifying to your committee."

(Signed) { THEO. WIRTH,
E. V. HALLOCK,

WILLIAM J. STEWART, Sec.

Department of Plant Registration.

The Conrad & Jones Co., West Grove, Pa., submit for registration Canna Dr. Wm. Saunders (Brandywine X Mt. Etna) previously No. 1504.

Flowers bright scarlet, large size and firm texture; foliage bronze tinted, shaded amber red. It is self cleaning; early and continuous bloomer; flowers often 5 to 6 inches across.

Canna Ottawa, formerly No. 2060. Flowers bright carmine; stems 7 to 71-2 feet high; green foliage 51-2 feet; flowers 5 to 6 inches across.

W. J. STEWART, Secretary.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

About 100 members were in attendance at the meeting on Tuesday evening, March 20. The committee appointed to report on a class in landscape gardening outlined a plan for its conduct. About 25 members signified their desire to join such a class, and it was voted that the committee be continued in order to perfect their plan and that the class start in October. A letter from President John H. Dunlop was read, thanking the club for the many courtesies that were extended to the Carnation Society on their visit to Boston. Eleven members were elected, making the number at present 296. It was announced that there would be a club banquet on April 25.

A paper was read by D. Lumsden on plants and bulbs most in demand for Easter trade which we hope to publish in the near future.

A lively discussion followed. W. N. Craig thought *Lilium candidum* should be grown more than it is for Easter in preference to *Harrisii*. Mr. Farquhar had said that the deterioration of the bulbs was due to their being procured from Italy and Turkey; that when the bulbs were procured from the north of France there was no trouble with them; but their cultivation had gradually been forced back to Italy and Turkey, and no good bulbs could be raised there. Jackson Dawson said one reason was they were lifted at a time when they ought to be making their winter leaves; they should be kept in pots one year.

Mr. Cameron recommended that more novelties be grown, such as *ericas*, several varieties of *hydrangeas* and *epacris*.

Mr. Duncan suggested that the growers in the vicinity of Boston do not grow enough novelties, and when the stores want them they are obliged to go to New York; the Boston growers ought to manage to grow them as well as they do in New York. Mr. Palmer seemed to think people in Boston did not care to buy such. Mr. Elliott said that the rose Killarney was very desirable because it shows so many colors; that a rose got a black eye that was perfectly even in color. Mr. Montgomery retorted that Mr. Elliott was a wholesaler; that he would take a *Jacqueminot* rose that had turned a purplish blue and sell it for a new color.

A discussion followed on the best boiler for general heating purposes, in which Messrs. Montgomery, Elliott and others took part.

On the exhibition table were a well grown plant of *Cattleya Trianae*, exhibited by James Cartwright of Newton; *Schizanthus*, by Wm. N. Craig; *Lathyrus pubescens*, a new perennial, by Frederick Rea of Norwood.

MORRIS COUNTY GARDENERS' AND FLORISTS' SOCIETY.

The meeting of March 14 was Carnation Night, with a full attendance of members, as well as many outsiders. A fine lot of carnations were staged.

F. R. Pierson Co., represented by Mr. Ross, showed four vases of Windsor and three vases of Lawson. Windsor got a certificate of merit, and the Lawsons honorable mention. Cottage Gardens Co. showed Alma Ward, Elsa Struss and Robert Craig. The first two received certificates of merit. Craig had been certificated before and bore out its previous reputation. F. Boulon's Long Island Beauty, a real beauty, got honorable mention. Patten & Co.'s Pink Patten and Mikado suffered in transportation and could not compete. The judges "would like to see them again." John E. Haines' namesake was there in grand shape. It had been certificated on a former occasion. Guttman & Weber's Victory also had been certificated; "previous judgment fully upheld." H. Weber & Sons sent Jessica, My Maryland, and Mabelle. The first two had previous certification, which was fully maintained. Mabelle got honorable mention. A. B. Davis' Red Sport received honorable mention. R. Fischer's Abundance received a vote of thanks. Freesia Purity also received a certificate of merit.

Among the members, A. H. Secker staged one vase each of Flamingo, Enchantress, Harlowarden, Lawson and Prosperity; all were superb, receiving a certificate of merit. R. Vince staged one vase each of Fiancee, Dorothy Whitney, Enchantress and a crimson seedling of great promise. He received the congratulations of the judges. His Fiancee showed up fine. No split calyx or other defect. Mr. Vince received a certificate of merit for a batch of this variety he showed last fall. He believes it has a future, and intends to keep on growing it a while longer. H. L. Hand had a grand vase in variety. A cultural certificate was awarded. The judges were A. Herrington, Wm. Duckham and C. H. Totty.

Among those who have something promising in the way of sports and seedlings are Wm. Duckham, R. Vince, H. L. Hand, W. H. Thomas and Marshall Crissman. An essay by Mr. Secker completed the entertainment. It was well received and well backed up by his exhibit. A rising vote of thanks was tendered him.

HORTICULTURAL SOCIETY OF CHICAGO.

The preliminary list of premiums offered by the Horticultural Society of Chicago to be awarded at the annual exhibition in November next has been received. The show will last six days. Special displays are provided for as follows: Monday, chrysanthemums and plants; Tuesday, roses and orchids; Wednesday, carnations, violets, lily of the valley, and bouquets; Thursday, private gardeners' day; Friday, American Beauty roses, new chrysanthemums, new carnations; Saturday, floral arrangements, carnations. Copies of the schedule may be had on application to E. A. Kanst, assistant secretary, 5700 Cottage Grove Avenue, Chicago.

NATIONAL COUNCIL OF HORTICULTURE.

Acting upon a request from the landscape designer of the Jamestown Exposition for advice and co-operation, the National Council of Horticulture, at its last meeting, designated different committees for this purpose. These committees have since been approved by Mr. Warren H. Manning, landscape designer of the Exposition. The members are as follows: 1. Classification, Prof. L. R. Taft, Agricultural College, Mich.; Prof. S. B. Green, St. Anthony Park, Minn. 2. Awards, L. A. Goodman, Kansas City, Mo.; Phillip Breitmeyer, Detroit, Mich. 3. Standards of Excellence, Prof. W. W. Tracy, Department of Agriculture, Washington, D. C.; J. H. Dayton, Painesville, Ohio. 4. Preparation of Call for National Congress, H. C. Irish, Missouri Botanical Garden, St. Louis, Mo.; J. C. Vaughan, Chicago, Ill. 5. Special Events and Programmes, Phillip Breitmeyer, L. R. Taft, W. W. Tracy, L. A. Goodman.

H. C. IRISH,
Secretary.

COLUMBUS FLORISTS' CLUB.

Even a foot of snow on the ground did not at all interfere with a large attendance at the special meeting called by President Stevens for Tuesday evening, March 13. This meeting was made necessary by the large number of requests for the one cent packages of flower and vegetable seeds which our club annually puts up for the children of the Columbus Public Schools. Our members are very much at earnest in this matter of school gardens, also home gardens for the children; and a grand work is being done here. Not only did the members work a long evening packing these seeds, but several of their wives gave an evening also. The next regular meeting will be held Tuesday evening, March 20, when this seed work will

CHICAGO WHOLESALERS' ASSOCIATION.

A meeting of the Chicago Wholesalers' Association was held at the office of E. C. Amling, March 19th. The purpose of the meeting was to perfect plans of the association. The following members were then nominated for office to be elected at next regular meeting: President, F. F. Benthley of Benthley-Coatsworth Co.; vice-president, C. M. Dickinson, of E. H. Hunt; secretary, John Risch, of Weiland & Risch, and John P. Degnan of Chicago Rose Co.; treasurer, E. C. Amling, of E. C. Amling Co., and Leonard Kill of Peter Reinberg.

NEWPORT HORTICULTURAL SOCIETY.

A regular meeting of the Newport Horticultural Society was held Tuesday evening last, President MacLellan in the chair. Four men were elected members of the Society. The treasurer, Col. McMahon, submitted a report which was considered very satisfactory. Mr. Gibson also reported, showing a substantial amount in his hands. A resolution was introduced and unanimously passed to the effect that the Society make it known to the State's representatives in Congress that it is opposed to the free distribution of seeds, the members of the So-

ciety being of one accord in the belief that the free distribution of seeds is simply wasting the people's money, besides to some extent doing an injustice to certain business interests. The consensus of opinion was that a united effort should be made to stop this vote-baiting business, and that if a strong stand is now made, there is every likelihood of success. Dr. A. J. Anderson, a prominent Newport physician and a member of the Society, made a very pleasing and instructive address on Jamaica, from whence he but recently returned, whither he had gone to investigate the reports frequently made to him regarding the island as a health resort. The doctor said he returned more than pleased with all he saw, and fully convinced of the truth of all that had been told him in favor of the climate of Jamaica. The industrial conditions, the speaker said were rather unsatisfactory, all through lack of capital, but this, he said, was being gradually supplied in the shape of American money, just what the natives had all their eyes and some of their senses out watching for. At one time, when labor was obtained under different conditions from the present, sugar cane was extensively cultivated on the island, but now very little of it is grown, but of late years banana growing has been extensively engaged in, and it is reasonably certain to prove a profitable industry. Fruit of many kinds grows on the island, and very little care is necessary to raise most kinds. A vote of thanks was accorded the speaker for his address, which, while out of the ordinary run of addresses heard at meetings of this Society, it was, perhaps, for that reason, as much as for any other, exceedingly well received and listened to with close attention by every one of the large attendance.

Prof. Kenyon L. Butterfield, of the Agricultural College at Kingston, is expected to address the Society at the next meeting, March 27. Prof. Butterfield soon will assume the presidency at Amherst, and it is more than likely that his visits to Newport will be far between after he betakes himself to Massachusetts.

NEW BEDFORD HORTICULTURAL SOCIETY.

At the meeting on March 12, H. A. Jahn gave an instructive talk on "Hybridization of the Dahlia." Arrangements were made for an illustrated lecture on the brown-tail and gypsy moths by Prof. Wm. Lyman Underwood of Boston, on the evening of March 23, and by the Messrs. Farquhar of Boston, on March 27, on "Flowers."

NEW HAVEN COUNTY HORTICULTURAL SOCIETY.

At the meeting on March 20, papers were read by Henry Cliff, gardener to O. G. Jennings, on Carnations, and by J. N. Champion, on Cut Flowers. Mr. Cliff exhibited some 50 new seedlings of his own raising, a noticeable feature in most of them being the fine fragrance that so many of the commercial varieties now lack. Both papers were very interesting.

CLUB AND SOCIETY NOTES.

The Gardeners' and Florists' Club of Boston, will hold a club banquet on

April 24. Ladies are invited, and there will be entertainment and dancing.

The first field day of the year will be held by the Gardeners' and Florists' Club of Boston at the establishments of Wm. W. Edgar and Pierce Bros., Waverly, on Saturday, March 31.

The Worcester County Horticultural society celebrated the 64th year of its work by a banquet and dance on March 14. The guests of honor were President Carroll D. Wright of Clark College and Mayor Duggan.

The next meeting of the New York Florists' Club will be held Monday evening, April 9, and will be Rose Night. Any one having a novelty in roses, also growers of standard varieties are requested to make an exhibit. The essayist of the evening will be Benjamin Dorrance, of Dorrance-ton, Pa.

A meeting of the Elberon (N. J.) Horticultural society was held on the 19th inst. The night was a very stormy one and the attendance small. Two visitors were present, W. W. Kennedy, vice-president of the Monmouth County society, and W. F. Ross, representing F. R. Pierson Co. of Tarrytown, N. Y.

The Missouri State Horticultural Society will hold its summer meeting at Moberly, June 12, 13, 14, 1906. Part of the program was arranged at the last meeting of the Executive Committee, but suggestions for topics for discussion, questions, facts and experiences from any of the fruit growers will be welcomed.

The convention of the Massachusetts Fruit Growers' association opened in Worcester on March 15. The matter of setting apart a national apple day was discussed and the hearty approval of the society given to it. Among the speakers Prof. F. W. Card of the Rhode Island agricultural college spoke eloquently of the need of modern business methods in fruit growing, laying particular stress upon the necessity of advertising. Prof. F. A. Waugh of Amherst called attention to the necessity of pruning trees, a feature that has been overlooked in late years since spraying has become so necessary. The meetings have been largely attended, and the fruit exhibited has been a credit to the county.

MOVEMENTS OF GARDENERS.

Harold Vyse has taken charge of G. E. Kissell's estate at Morristown, N. J. H. L. Hand leaves G. E. Chisholm, Morristown, N. J., to accept a more remunerative position at Portchester, N. Y.

Hugh Birch, lately with D. H. McAlpin, Morris Plains, is now in charge of Hon. Seth Low's place, Mt. Kisco, N. Y.

Robt. McMullen, for 15 years gardener to Mrs. G. F. Stow, Morristown, N. J., resigns his position, to take effect April 1.

John Whalen, now in charge of R. A. McCurdy's place, takes charge of the Armour place, Normandie Heights, on March 15 next.

Prof. Harold H. Hume, for the past four years connected with the State Agricultural College at Raleigh, N. C., has been appointed professor of horticulture at the new Macdonald College, at St. Anne de Bellevue, Canada.

NEWS NOTES.

The wholesale flower store of John J. Perkins, 115 West 30th street, New York, was broken into and a type-writer stolen last Sunday.

Edwin Hoyt of the New Canaan Nurseries, Conn., has recently added sixty acres to his already large grounds, and will plant the tract with young trees.

The town of Greenfield, Mass., has voted \$5000 for the commencement of work on a mountain park, with a plan for further appropriations when required.

Frank W. Ball, for several years with J. A. Peterson of Cincinnati, has accepted a position with George & Allan and will have charge of the cut flower and design work.

Fred Windmiller, the manager of the Livingston Seed Company's greenhouses at Columbus, Ohio, has for some years been hybridizing and working for new varieties in the carnation line. He has obtained some most satisfactory and extremely elegant new sorts.

A bowling match between the gardeners of Wheatley Hills and Glen Cove, L. I., N. Y., took place on Tuesday evening, March 13, at Glenwood, resulting in a victory for Glen Cove by 26 pins. Messrs. Trepass, Cleres, Harrison, Willesen and Brown composed the Glen Cove team; Messrs. Johnson, Bertanzel, Kennedy, Dumbroski and Everett, the Wheatley Hills team. The scorer was A. J. Richards.

FORCING LILACS FOR THE HOLIDAYS.

One German lilac grower writes: "We forced our pot-grown lilacs this year for Christmas and New Year's with great success; had practically no miss, there being only three plants out of several hundred that did not do well. We used Marie Legraye and Charles X., and cold stored them three weeks before forcing in a temperature of about 23 deg. to 25 deg. Fahrenheit; this evidently helped them considerably. Had the same good results with our lily of the valley; forced 150,000 for the holidays and did not lose five per cent.

NEWPORT NOTES.

The prospects for a good season in Newport are growing brighter as the time approaches. Stock is plentiful in most lines with nearly all the growers. Quality is good and growth in an advanced state. The demand for outdoor planting promises to be above the average. Easter stock is not over abundant nor too far in advance as to growth for the time for which it is intended. Tree planting and tree moving has been going on all winter and the places where these operations were carried on will soon receive finishing touches.

BUSINESS CHANGES.

The Alameda Greenhouses at Roswell, N. M., have been taken by F. O. Santheson.

Harry Rowe, formerly at 35 E. Monroe street, Chicago, is now located in his new and larger store at the Palmer House, 42 E. Monroe street.

BAY TREES

Largest Stock in this Country

Perfect Standards and Pyramids

All Sizes Up to the Largest

Choice Ornamental Nursery Stock

ORCHIDS, EASTER PLANTS

... Send for Catalogue ...

JULIUS ROEHRS COMPANY

RUTHERFORD, N. J.

NEW CRIMSON CANNA

Gold Medal Winner at St. Louis

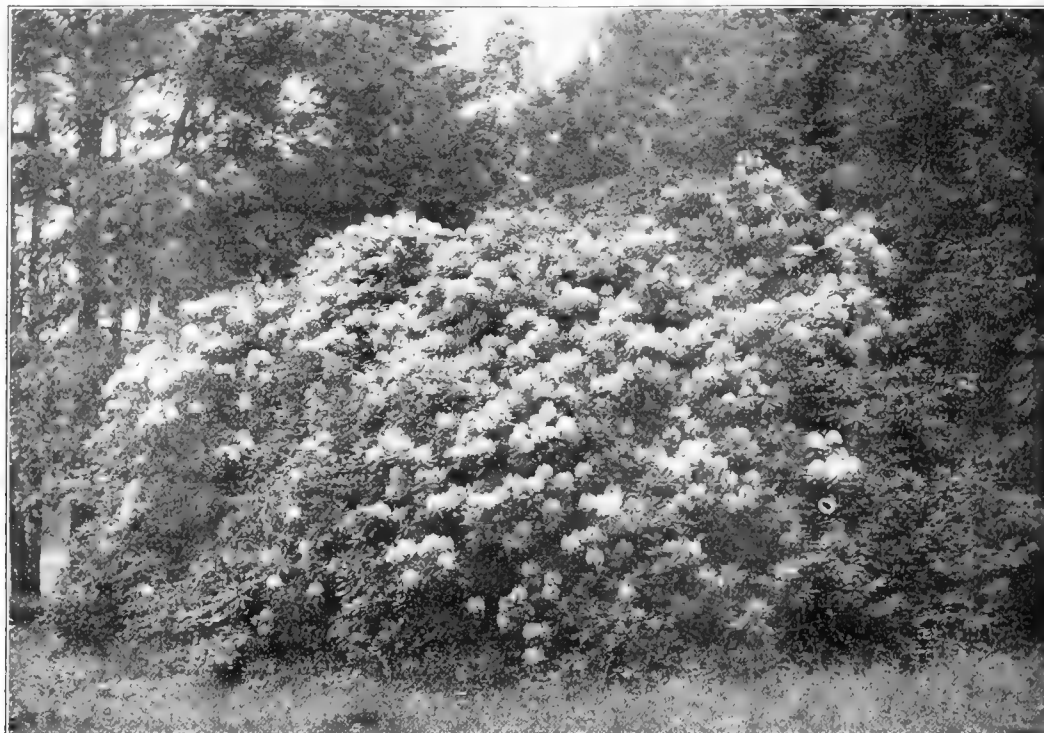
Mrs. W. F. Kasting

**\$2.00 per doz.; \$15.00 per 100; \$100.00 per 1,000. Delivery NOW
or up to the 1st of April**

WM. F. KASTING

SOLE DISTRIBUTOR

383-387 Ellicott St., BUFFALO, N. Y.



SPECIMEN HARDY HYBRID RHODODENDRONS.

THE SELLING AND PACKING OF CARNATION BLOOMS AND CUTTINGS.

(Extracts from a paper read before the
Chicago Florists' Club March 6th,
1906, by J. D. Thompson.)

In shipping, too much care can not be taken in the selection of bloom and in packing same. In our experience we have all had complaints that blooms reached their destinations in a sleepy condition and of those shipped a short distance not keeping as well as they should. I immediately set to work to determine where the trouble was. I would pick blooms at different stages of maturity and tried keeping them in water all the way from six to twenty-four hours before shipping, but with the same results I then made a test of the keeping quality before and after fumigating,

and found that blooms picked before fumigating would last in our cooler for ten days and those cut after fumigating would last but three days. I then tried different insecticides until I found one that did not destroy the keeping quality of the blooms and at the same time was effective. Since then we have had no complaints.

Good packing is very essential. We first line the box and then place layers of wet paper in the middle where the stems come and pack the layers of blooms in rows from each end of the box, placing a layer of paper in the center on each row of stems and so on. If the shipment is to be in transit over 15 hours we put in a small piece of ice, but it is not necessary to use ice if the shipment is only to be on the road over night.

The packing and shipping of rooted cuttings of carnations is an important matter. In the cuttings received we find that nine times out of ten the moss around the roots is too wet. This has a tendency to damp them off if they are three or four days in transit. Again while some shippers get the moss prepared properly, they use old newspapers or manilla paper to wrap the bundles in, the paper often absorbs all the moisture and the cuttings reach their destination in a wilted condition. I find that wetting the moss thoroughly and then squeezing it as dry as possible and allowing it to remain over night before using, insures good results. In wrapping bundles, use heavy wax paper; in this way the paper does not absorb the moisture left in the moss.

Bulbs for Easter.

Hyacinths, Jonquils, Tulips, first-class bulbs, just right for Easter flowering, $4\frac{1}{2}$ in. pots, \$1.50 per doz., \$10.00 per 100.

ASPARAGUS SPRENGERII, 4 12 in. pots, \$1.50 per doz., \$10.00 a 100; strong, 3 in. pots, 75c. per doz., \$5.00 per 100; 2 in. pots, \$2.00 per 100.

ABUTILON SAVITZII, 3 in. pots, 75c. per doz., \$5.00 per 100; 2 in. pots, 50c. per doz., \$3.00 per 100.

CLEMATIS PANICULATA, 4 in. pots, \$1.50 per doz., \$10.00 per 100; 3 in. pots, 75c. per doz., \$5.00 per 100.

CLEMATIS, large old 2 year old plants, \$3.00 per doz., \$10.00 per 100.

DAISY, Queen Alexandra, 3 in. pots, 75c. per doz., \$5.00 per 100.

EPIONYMUS, golden variegated, 2 12 in. pots, 60c. per doz., \$3.00 per 100.

EPIONYMUS, golden var., 2 12 in. pots, 50c. per doz., \$3.00 per 100.

PRIMULA ORIENTALIS, 4 in. pots in bloom, \$1.00 per doz.

GERANIUMS, double scarlet, white and pink, from 3 in. pots, strong, \$4.00 per 100.

C. EISELE, 11th & Roy Street, PHILADELPHIA, PA.

GREENHOUSE MEN

REMEMBER

that we can on short notice apply the

HOLLY-CASTLE ELECTRIC CIRCULATOR

Trouble and Money Saved by

INDEPENDENT CIRCULATION

HOLLY-CASTLE CO., Engineers
49 FEDERAL ST., BOSTON, MASS.

STRONG WELL ROOTED CUTTINGS

Of the following varieties ready for immediate delivery

Robert Craig	\$12.00 per 100	\$100.00 per 1000
Enchantress	3.00 per 100	25.00 per 1000
Mrs. M. A. Patten	4.00 per 100	30.00 per 1000

J. D. THOMPSON CARNATION CO., Joliet, Ill.

AT BOSTON

Robert Craig Wins Again

Not another scarlet carnation has been able to take first honors with **ROBERT CRAIG**.

The introducers of **CRAIG** fill all orders on time and send out only healthy, vigorous, well grown selected cuttings taken from blooming stems.

Send in your order now.

We can fill it promptly.

\$3.00 for 25	\$12.00 for 100	\$50.00 for 500
6.00 for 50	25.00 for 250	100.00 for 1000

5 per cent. discount for cash with order.

COTTAGE GARDENS COMPANY,
QUEENS, N. Y.

A PAIR OF QUEENS

Richmond	Wellesley
2 1-2 inch pots	2 1-2 inch pots
\$12.00 per 100	\$10.00 per 100

WABAN ROSE CONSERVATORIES
NATICK, MASS.

There are many purchasers of cuttings who seem to think that every cutting should live; our experience has been in establishing those shipped in to us, we lose from five to ten per cent. I regret to say that there are many in the craft who receive cuttings in good condition and after 30 or 60 days when they receive a statement of their account, write and say that "The cuttings which you sent me arrived in poor condition and I have lost over half of them." This is the first intimation that the consignor has had that the cuttings were not satisfactory, and under the circumstances he can not, and should not be held responsible for any mistreatment the cuttings have received while in the purchaser's care.

When cuttings are received by the purchaser upon examination of same, if they are not found to be satisfactory or as represented by the firm from whom he is buying same, he should wire to that effect at once, "Cuttings not satisfactory, here subject to your order." If the cuttings are accepted and no complaint made immediately, it goes without saying that they were satisfactory at the time received and the purchaser of cuttings should not expect the shipping firm to stand a loss which the consignee may have occasioned by mistreatment in establishing.

We have found it well to have printed instructions and put them in the box with every shipment of cuttings, advising the purchaser as to the treatment they should have. When

we are making such shipments, unless otherwise instructed, we advise the party by mail the day of shipment that we are sending a quantity of cuttings by express, naming the company. In this way there will be no delay and the consignee receives his cuttings promptly, for if the express company fails to advise him he can be on the lookout himself for their arrival.

We must bear in mind that a satisfied customer is our best advertisement and our aim should be quality, not quantity. To paraphrase what a certain writer once said, "Bulk-quantity, whether of bank notes or piled-up masonry or population, amounts to but little." It is quality that tells the story. The character that is in us and in what we produce, the moral worth that we represent, the good that we are doing, not for ourselves and for today, but for others and for the generations to come, and, in order that we may level up according to the best standards and achieve real success, it means that we must have the thread of the "square deal" running through all our transactions with one another as florists as well as with the world at large. And when we consider what the carnation stands for in all its loveliness and ideality we have a shrine before which we can be glad to worship.

FERNS

A No. 1 Stock, \$1.00 per 1000. SPECIAL FOR EASTER, 85c. per 1,000 in lots of 10,000 or more. GOODS GUARANTEED PERFECT.

Galax Leaves, Brown or Green
\$1.00 per 1,000

H. L. FORTUNES

431 State Street, NEW HAVEN, CONN.

DAHLIA PLANTS NOW READY

A large collection of rare and new varieties.

ROOTS

A quantity of standard sorts on hand. Catalogues free.

DAVID HERBERT & SON

SUCCESSORS TO

L. K. PEACOCK, Inc.

ATCO, NEW JERSEY

ROSES

Brides, Bridesmaids, Golden Gates and Ivories, 2½ in. pots, \$4.00 per 100; Mme. Abel Chatenay, \$5.00 per 100. We call this extra fine stock. Order at once.

Prosperity Carnations, rooted cuttings, \$2.00 per 100, 2¼ in. pots, \$2.50 per 100. **Boston Market**, rooted cuttings, \$2.00 per 100.

L. J. REUTER

60th St. and Gibson Ave.,

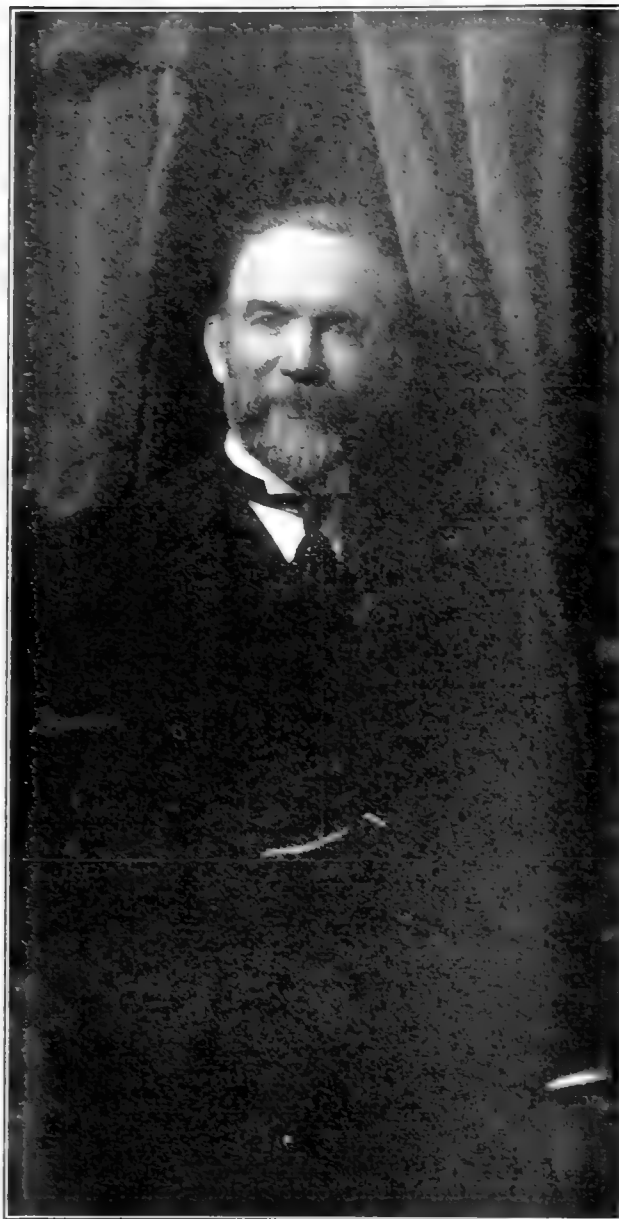
PHILADELPHIA, PA.

A MODEL NURSERY

The F. R. Pierson Co.'s nurseries at Scarborough, N. Y., of which an account was given in the first part of this issue, are among the most interesting in the country.

The main drive is there, but on account of the layout and arrangement of the plantings. The busy head of this establishment, whose portrait appears herewith, has an appreciation of the beautiful in his work which the commercial spirit can never smother; hence a large area of nursery space is reserved for ornamental arrangement along the roadside and skirting the many driveways which wind through the place. The effectiveness of this method is enhanced by the splendid view of the Hudson river which the nursery overlooks and the mountains beyond, all combining in a picture which once seen, will never be forgotten.

The planting plan alluded to is not, however, without its utility. Care is taken in the groupings to show each species and variety in its best aspect, and each is given as companions those contrasting or harmonizing sorts that would be selected by an expert planter for such a use if the plantations were intended to be permanent. Hence the entire outlook, whether from the roadway or the drives, is an object lesson not alone in plants but in planting.



F. R. PIERSON

The prospective purchaser may, if he or she so desires, sit in a carriage and in a drive about the nursery inspect and select the stock wanted and at the same time absorb valuable information as to its best use. This is a cardinal principle of the plantings; practically everything offered in the collection is brought forward in specimens and groups of the various sizes in stock where it may be seen in the manner described, and as a proposition for the nurseryman who is looking for retail trade it has the old-fashioned "nursery row" system distanced beyond recovery.

Much more could be said about this interesting place. The greenhouses and their contents—the Pier-soni fern, Winsor, White Enchantress, and other carnations which are a specialty here—have been alluded to in former issues of HORTICULTURE, and we expect to touch frequently in a more detailed way in the future on topics connected with the outdoor nursery department. Plans are now being made for a large addition to the greenhouses and the nursery grounds are being steadily extended. It certainly is a most interesting and inspiring place to visit, for everything seems to be done just right, and the stock, from the largest specimen down to the rooted cutting, is as good as intelligent care can produce.



ENTRANCE TO F. R. PIERSON CO. NURSERIES, LOOKING IN.



ENTRANCE TO F. R. PIERSON CO. NURSERIES, LOOKING OUT.

Three Sterling Carnation Novelties

Winsor, White Enchantress, and Helen M. Could

There is nothing about any of these varieties that we wish to conceal; therefore, we cordially invite all carnation growers to pay us a visit. Come at any time.

WINSOR—Winner of Lawson Silver Medal.

This is sure to prove a winner. Nothing approaches it in color, which is a clear silvery pink—a shade between Enchantress and Mrs. Thos. W. Lawson—and much more beautiful than either. In fact, it is just the shade that we have all been trying to get. The color will make it sell in any market. The stem is just right. The flowers are considerably larger than Lawson and much better shaped. As a grower it has everything that can be desired. So far we have not seen any large-flowering variety quite so free as Winsor.

WHITE ENCHANTRESS.

A pure white sport of Enchantress, at once the most popular and most profitable carnation grown today, on account of its size and stem and freedom with which it blooms. White Enchantress is identical in every respect but color. Those desiring quality as well as quantity will find it in White Enchantress.

HELEN M. COULD.

This is a beautiful variegated sport of Enchantress. The ground color is a lovely shade of clear pink, the variegation carmine, making an exquisite combination of colors, besides being something distinctly new. At a short distance the variegation does not show at all, the general effect being a beautiful shade of dark pink. Growth, habit, size, and stem are the same as Enchantress.

We have fine stocks from which we can deliver healthy cuttings of Variegated Lawson, White Lawson, Red Lawson, Enchantress, Mrs. M. A. Patten, Lady Bountiful, etc.

Our Variegated Lawson is all that we claimed for it last season, and is giving the fullest satisfaction everywhere—the best in the variegated class. Come and inspect our stock of new and standard sorts

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TARRYTOWN - ON-HUDSON, NEW YORK.

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THESE VARIETIES ARE READY NOW

	per 100	per 1000
NEW Skyrocket , (scarlet) a good thing.....	\$6.00	\$50.00
NEW Daybreak Lawson or Melody . Will be sold next year at same price by other firms.....	12.00	
NEW Glendale , variegated. The first variety to supercede Mrs. Bradt, marking similar but improvement in growth, freedom and length of stem.....	12.00	100.00
NEW Jessica , variegated, (Weber) a fine thing. 2 inch plants, strong.....	14.00	

	per 100	per 1000
SPECIAL . 20,000 Extra Strong 2 inch Mrs. Thos. W. Lawson.....	3.00	25.00
Prosperity, same class of stock, same price.....		
Mrs. M. A. Patten, from soil.....	3.00	25.00
Harlowarden, crimson, from sand.....	2.00	15.00
Prosperity, from sand.....	2.00	15.00
Mrs. Thos. W. Lawson, from sand.....	2.00	15.00
Lady Bountiful, from sand.....	3.00	25.00
Variegated Lawson, from sand.....	5.00	40.00

ROSE PLANTS (from 2 inch pots)

	per 100	per 1000
American Beauties.....	\$6.00	\$50.00

	per 100	per 1000
Mad. Chatenay, Bride, Bridesmaid, Golden Gate....	\$3.00	\$25.00

CHICAGO CARNATION CO. - - JOLIET, ILL.

	100	1000
RICHMOND ROSE 2 1/4 in. \$12.00 \$100.00		
KAISERIN " " 4.00 35.00		
VARIEGATED LAWSON R.C. 6.00 50.00		
ENCHANTRESS 3.00 25.00		
QUEEN and LAWSON 2.00 18.00		
1st March delivery E. H. PYE, FLORIST UPPER NYACK, N. Y.		

ROOTED CUTTINGS

Robert Craig, Victory, John E. Haines, White Perfection, Variegated Lawson and My Maryland. Also all the leading commercial varieties. Send for list.

WM. SWAYNE, Kennett Sq., Pa.

Some People have taken our advice as published in

these columns recently and are buying **My Maryland** for trial. We reiterate here—it succeeds with you as it does with us, it will prove the best white carnation you ever grew. Despite the variety's apparent failure in several places, we strongly advise all growers to give it a trial. We have been frank about its faults as developed in other places. We doubt if these will develop in many places.

Jessica we believe, will succeed generally, and will prove to be the best red and white variegated ever disseminated. Few varieties show as strong constitution as this one does, and it is a wonderful producer. Extra fine stock of both varieties ready now. R. C. \$2.50 per doz. \$25.00 per 100. \$100.00 per 1000. Pot plants, \$1.00 per 100 extra. Send for our catalog, now ready.

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Sold on its merits alone.

	Per 100	Per 1000
RED SPORT	\$5.00	\$40.00
QUEEN LOUISE	1.25	10.00

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Cuttings from 2 1/2-2 inch pots.

Ready for 4 inch. Price \$10.00 per 100.

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\$3.00 per dozen \$25.00 per 100

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I offer all the following varieties in strong, low budded, two year old bushes

\$1.25 per 10, \$10.00 per 100, \$90.00 per 1000, 250 at the 100 rate

Abel Carrier, crimson
Alfred Colomb, carmine
Paul of Snow, pure white
Baron de Bonstetten, dark crimson
Baroness Rothschild, pink
Catain Christy, flesh color
Chestnut Hybrid, red
Earl of Dufferin, bright red
Frau Carl Druschki, snow white
Fisher Holmes, dark crimson
Duke of Edinburgh, bright vermillion
Gloire de Margottin, dazzling red
Gen. Washington, red
Geant des Batailles, crimson

Gen. Jacqueminot, crimson
Mad. John Laing, pink
Mabel Morrison, pure white
Mme. Chas. Wood, carmine
Margaret Dickson, white
Magna Charta, dark pink
Perle des Blancches, white
Persian Yellow, yellow
Prince Camille de Rohan, crimson
Paul Neyron, dark pink
Ulrich Brunner, cherry-red
Moss, white
Moss, pink
Moss, red

HYBRID TEA ROSES

American Beauty	\$1.50 per 10,	\$12.00 per 100	
Kaiserin Augusta Victoria	1.50 "	12.00 "	
La France	1.50 "	12.00 "	
Maman Cochet, pink, own root	1.00 "	9.00 "	\$85.00 per 1000
Maman Cochet, white, own root	1.00 "	9.00 "	\$5.00 "

NEWER TEA ROSES

Bessie Brown, creamy white	\$1.75 per 10	\$15.00 per 100
Gruss an Teplitz, red	1.50 "	12.00 "
Et d'ile de France, red	4.50 "	40.00 "
Konigin Karola, pink	2.00 "	18.00 "
Mildred Grant, cream	1.75 "	15.00 "

POLYANTHA ROSES

Clothilde Soupert, white	\$1.50 per 10	\$12.00 per 100
Hermosa, pink	1.50 "	12.00 "

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Coleus Rooted Cuttings

Verschaaffeltii, Fire Brand, Beckwith's Gem, 60c. per 100.	Golden Queen, Queen Victoria, Fancy Varieties, \$5.00 per 1,000.
Golden Bedder, Messy, 75c. per 100.	Hero, Pearl of Orange, \$6.00 per 1,000.

Positively free from mealy bugs.

Ageratum, Stella Gurney, Princess Pauline, Salvia, Splendens, German Ivy, 75c. per 100 \$6.00 per 1,000

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KOSTER BLUE SPRUCE

5 ft. to 8 ft. high

J. H. TROY, New Rochelle, N. Y.

PHILADELPHIA NOTES.

Messrs. Davis and Wilson are back at their old posts with the Niessen Company.

Robert Kift is asking an extension to May 15th on his second installment due Jan. 15th.

Paul Klingsforn, of Dumont's, is back in harness again, after a three weeks' siege of typhoid.

The annual spring show of the Pennsylvania Horticultural Society will be held in Philadelphia, March 27, 28 and 29.

A meeting of the creditors of C. P. Poryzees was held at the office of Attorney W. Furst on the 19th inst. A satisfactory agreement was concluded and the business will be continued.

Mr. Turnbull was in town on Saturday with an exhibit of the new rose, Miss Kate Moulton. He had an opportunity to greet many of his old friends in the trade here, and incidentally to book a few good orders for the newcomer.

Easter plants among the Philadelphia growers never looked finer than they do this year; and the stocks to choose from were never so large nor so varied. Among the most notable collections are those of William C. Smith, at 61st and Market streets, Robert Craig & Son, Godfrey Aschmann, Wm. K. Harris, Jacob Becker and C. Harry Campbell. Samuel S. Pennock, who represents most of the best growers of the vicinity, is now mailing his special offer, which includes several desirable new Easter subjects.

CATALOGUES RECEIVED.

"Rosy Propositions." This is the wholesale price list of the Leedle Floral Company, Springfield, O. Devoted exclusively to roses.

Bobbink & Atkins, Rutherford, N. J. This catalogue is a beauty, up-to-date in every feature, illustration and type unexcelled, and there is nothing omitted in the long list of ornamental trees, shrubs and herbaceous plants that one could wish for. The cover shows a bird's eye view of the extensive nurseries. The wholesale list of this firm is also out.

Frederick W. Kelsey, 150 Broadway, New York. Catalogue No. 55, Choice Trees and Hardy Shrubs. Mr. Kelsey has chosen for the cover adornment of this elegant catalogue the beautiful flower sprays of white crataegus. The illustrations are original half-tones and the book is typographically a gem. The contents will be found deeply interesting to the student of advanced gardening art. The lists are very complete.

SEED TRADE.

The Crenshaw Bros. Seed Co.—John A. Crenshaw, I. A. Crenshaw, F. S. Love, H. P. Inabinet, H. S. Hampton and J. A. Griffin have incorporated under the name of The Crenshaw Bros. Seed Co. of Tampa, Fla. Capital stock, \$25,000.

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Also suitable for Tulips and other purposes.
DYED GREEN per 100 per 1,000
12 inch \$0.15 \$0.85
18 inch20 1.25

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	100	500	1,000
Southern	\$0.75	\$3.00	\$0.00
Japanese. Very thin, about 6 feet long75	3.00	5.50

UNPAINTED STAKES or DOWELS (Wood)

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36 in. long 3-16 in. diam.	\$0.60	\$4.50
30 " " 5-16 " "75	4.50
30 " " 5-8 " "70	6.00
30 " " 1-4 " "60	4.50
36 " " 3-8 " "60	4.00
42 " " 3-16 " "65	5.50
42 " " 1-4 " " . . . . .	.60	5.50
42 " " 5-16 " " . . . . .	.65	5.50
42 " " 3-8 " " . . . . .	.75	5.25
42 " " 5-8 " " . . . . .	.85	7.50

We can supply these dowses, dyed green, 50c per 1000 additional.

RAFFEA (Fresh and Strong)

Natural. 15c. per lb.; 10 lb. \$1.25. \$11.00 per 100 lb.
Colored. All shades, same as mailed on request. Per lb., 40c.; 5 lb. lots, 38c. lb.; 10 lb. lots, 35c. lb.

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100	100	100	100
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 Buttercups, Primrose Grandiflora 1.00 .50
 Cowslips, large flowered Oz. 2.50 .50
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 Giant Marguerite Carnation, mixed..... 1.50 .25
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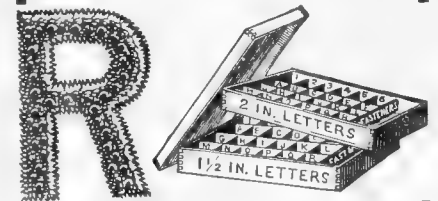
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Carnations.

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and Bridesmaid.
Lily of the Valley.

Violets.

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BOSTON

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Valley Violets and all Cut Flowers

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1526 Raunstead Street, PHILADELPHIA
Store Closes 8 P. M.

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		ST. LOUIS		PHILA.		BOSTON					
	March 19		Mar h 19		March 19		M rch 22					
ROSES												
Am. Beauty and Edgely Fan. & Sp.	40.00	to	50.00	25.00	to	35.00	35.00	to	45.00	40.00	to	50.00
" Extra.	25.00	to	35.00	15.00	to	20.00	20.00	to	30.00	30.00	to	40.00
" No. 1.	8.00	to	12.00	10.00	to	12.50	10.00	to	15.00	15.00	to	25.00
" Lower grades.	..	to	..	5.00	to	8.00	4.00	to	8.00	3.00	to	8.00
Bride & 'Maid—Fan. & Sp.	10.00	to	15.00	8.00	to	10.00	..	to	10.00	10.00	to	12.00
" Extra.	6.00	to	8.00	5.00	to	6.00	8.00	to	10.00	6.00	to	8.00
" No. 1 and Lower gr.	3.00	to	5.00	..	to	4.00	3.00	to	5.00	3.00	to	5.00
Liberty, Fancy	10.00	to	12.00	..	to	15.00	..	to	25.00	12.00	to	25.00
" Ordinary	4.00	to	8.00	..	to	6.00	..	to	12.00	4.00	to	8.00
Richmond, Fancy	10.00	to	15.00	5.00	to	10.00	15.00	to	20.00	20.00	to	30.00
" Ordinary	6.00	to	8.00	4.00	to	6.00	10.00	to	12.00	8.00	to	12.00
Golden Gate, Fancy	10.00	to	12.00	6.00	to	8.00	8.00	to	12.00	6.00	to	8.00
" Ordinary	6.00	to	8.00	4.00	to	5.00	3.00	to	6.00	2.00	to	4.00
Chatenay, Fancy	8.00	to	12.00	5.00	to	10.00	10.00	to	12.00	6.00	to	8.00
" Ordinary	4.00	to	6.00	5.00	to	6.00	6.00	to	8.00	3.00	to	5.00
CARNATIONS												
Fancy	1.00	to	4.00	2.50	to	3.00	2.50	to	4.00	2.00	to	3.00
Ordinary	1.00	to	2.00	1.50	to	2.00	1.50	to	2.00	1.00	to	2.00
MISCELLANEOUS												
Cattleyas	..	to	..	..	to	..	75.00	to	..	50.00	to	75.00
Lilies	10.00	to	20.00	12.50	to	15.00	12.00	to	15.00	8.00	to	12.00
Callas	10.00	to	15.00	12.50	to	15.00	10.00	to	12.00	8.00	to	12.00
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	2.00	to	5.00	2.00	to	3.00
Violets	.25	to	1.00	.25	to	.40	.20	to	.75	.20	to	.40
Tulips	2.00	to	4.00	3.00	to	5.00	3.00	to	4.00	1.00	to	2.00
Roman Hyaz., Paper White, Nar.	2.00	to	4.00	2.00	to	3.00	2.00	to	4.00	1.00	to	2.00
Daffodils, Trumpets	2.00	to	4.00	1.00	to	2.00	1.50	to	3.00	.75	to	1.00
Freesia	..	to	..	..	to	..	2.00	to	4.00	.75	to	1.00
Mignonette	..	to	..	4.00	to	6.00	2.00	to	3.00	..	to	2.00
Adiantum Cuneatum	50	to	1.00	..	to	1.00	..	to	1.00	.75	to	1.50
" Croweanum	..	to	..	..	to	1.00	..	to	1.50	..	to	1.50
Smilax	10.00	to	15.00	12.50	to	15.00	15.00	to	20.00	12.00	to	16.00
Asparagus Plumosus, strings	..	to	..	25.00	to	50.00	40.00	to	60.00	..	to	50.00
" " & Sprenger bunches	20.00	to	45.00	25.00	to	50.00	50.00	to	60.00	20.00	to	50.00
Lilacs per bunches	1.00	to	1.50	7.00	to	100.00	..	to	75.00	..	to	..

J.A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and
Carnations
A Specialty.....

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GROWER OF CUT FLOWERS

VICTORY

We do not need to advertise Victory aggressively any longer. We are making prompt deliveries of Cuttings daily and are giving universal satisfaction. ENOUGH SAID!

CUT FLOWER MARKET REPORTS.

BOSTON Roses are selling fairly well this week. All varieties, but particularly Bride and Bridesmaid are much larger and of better quality in all respects than of late. Carnations are plentiful especially Lawson and Enchantress. White carnations are not so abundant. Violets, lily of the valley, sweet peas, narcissi, freesias, etc., are all to be had in abundance. Smilax is getting scarce and price advancing.

CHICAGO Business has not been so brisk, the snow storms of the past few days keeping the transient trade at home. There is a general rejoicing among the rose growers, as the stock has improved excellently both in quality and quantity. Beauties are gradually improving. Bulbous stock remains the same. Extra long callas shipped in this morning were soon disposed of. The demand for lily of the valley and violets continues as brisk as can be expected.

CINCINNATI The advent of Lent thus far has scarcely been noticeable in the cut flower market. Business continues to be very satisfactory, and the demand is steady. The supply of stock is increasing, and some days it looks as though the market was bordering on a glut, but so far there has been no serious oversupply. March has been a hard month on roses, and the dark weather has had a telling effect on their growth. The proportion of second grade stock is large, and the indications are that it will be greater from now on. Carnations are plentiful; the grade is up to the standard, and vast quantities are sold each day. Bulbous stock is coming in fine, and is in such shape that it will hold out till after Easter, no matter what the weather conditions may be. Lily of the valley and Harrisii are good, and the supply and demand are just about equal. Violets hold out well, but the price has dropped and many were jobbed off at any old price. Pot plants for Easter are going to be scarce, with possibly the exception of Harrisii lilies, and they will bring almost the same figure when sold as a cut flower, and at much less trouble to the grower. But few of our growers care to sell pot lilies and will only supply their regular customers with them.

COLUMBUS Saint Patrick's Day brought a very nice flower business indeed; in fact, much more trade than the very dull days of the first of the week seemed could be pos-

sible. Apart from this trade on Saturday, it has been one of the duller weeks since the year came in. Bulb stock is still very plentiful, and so are carnations; both selling in quantities as low as \$1.50 a hundred. It is very dull even for the Lenten season—but it will not be very long now to Easter, and the usual April weddings.

DETROIT The usual celebration of St. Patrick's day took place, but with mild doings compared with former years. The opportunity for a green display is a very handy one for the florists, and many made good use of it by trimming with their regular stock. While every day was not a busy day, still the week sums up to good advantage. At times the wholesalers will be over-stocked, and then again, a trifle short. When the wholesaler finds his vases filled, the retail grower finds the same, and if one finds stock scarce, so does the other, and then again, the retail grower is at present engaged in the reducing of bulbous stock, which comes in bulky lots. White carnations, which are still scarce, sell readily at a good margin. Violets are too numerous for ready use, and many lay over. Roses are not extra as to quality, and Beauties are almost forgotten. Sweet peas are good in quality, but selling slow.

INDIANAPOLIS During the last two weeks trade has not been up to the average. Bulbous stock is coming in at its best now, but no fancy prices received. Roses are in fairly good supply, with demand for better grades only, while Beauties have at no time been in excess of demand. The quality of all kinds of stock is unusually fine. Violets, lilacs, lily of the valley and sweet peas are to be had in most any quantity. There has been quite a scarcity of Easter lilies so far. Blooming plants are to be seen in variety everywhere, and spring-like weather is all that is required to bring good returns in sales of same.

LOUISVILLE Business conditions the past week were about as good as could have been expected, the weather being very poor. Stock in general was in fair supply, and not many disappointments were heard of. Carnations and roses found a demand up to expectations, the supply and quality being satisfactory. Violets and forget-me-nots find great demand. Mignonette moves slowly. There is a steady call for bulbous stock and no lack of it.

NEW YORK Business has lagged considerably for the past week, and all that prevented a further downfall in values has been the rather moderate supply of flowers. Daily receipts are, however, rapidly increasing in quantity and present prices have a very weak footing, with a probability of considerable break on some lines before the end of the week. American Beauty roses, which may fairly be regarded as a gauge of the general market, are offered at about one-half the prices of two weeks ago, and the sales are slow. Smilax is scarce and higher.

PHILADELPHIA Monday of last week was an encouraging starter for business, but the heavy storm on Tuesday hurt things badly, this condition continuing Wednesday and Thursday. Friday and Saturday were better and on the whole stock moved off pretty clean for the week especially as there was some shortening up in supplies. St. Patrick's Day was observed more than ever in a floral way and it would seem that all our holidays are now becoming more of a factor than heretofore. The supply of carnations fell off and the glut of the preceding two weeks is now over. Beauties are more plentiful and prices dropped another notch. There was a land office business in Killarneys on St. Patrick's Day. Lily of the valley moves slowly, there being a good deal of other white material at reasonable figures such as Roman hyacinths, narcissi, freesias, lilacs, etc.

Always enterprising, we are now ready with a fine line of Easter Baskets.

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1928 GERMANTOWN AVE., PHILADELPHIA, PA
Per postal



H. BAYERSDORFER & CO

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FINE ROSES FANCY CARNATIONS
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AND CASH RETURNS
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Telephone 2921 Madison Square.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Mar. 17 1906	First Half of Week beginning Mar. 19 1906		Last Half of Week ending Mar. 17 1906	First Half of Week beginning Mar. 19 1906
Roses			Carnations, Ordinary	1.00 to 1.50	1.00 to 1.50
Am. Beauty and Edgeley fan and sp.	30.00 to 40.00	30.00 to 40.00	Cattleyas	40.00 to 60.00	40.00 to 60.00
extra	20.00 to 30.00	20.00 to 30.00	Lilies	6.00 to 10.00	6.00 to 10.00
No. 1	8.00 to 15.00	8.00 to 15.00	Callas	6.00 to 8.00	6.00 to 8.00
Lower grades	2.00 to 5.00	2.00 to 5.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Bride & 'Maid, fan and sp.	8.00 to 10.00	6.00 to 8.00	Violets	.20 to .50	.20 to .50
extra	6.00 to 8.00	5.00 to 6.00	Tulips	1.50 to 3.00	1.50 to 3.00
No. 1 and lower grades	3.00 to 5.00	3.00 to 5.00	Roman Hyacinth, Paper White Nar.	1.00 to 2.00	1.00 to 2.00
Liberty, fancy	25.00 to 30.00	25.00 to 30.00	Daffodils, Trumpets	1.50 to 2.00	1.50 to 2.00
ordinary	1.50 to 8.00	1.50 to 8.00	Freesia	1.00 to 2.00	1.00 to 2.00
Richmond, fancy	15.00 to 25.00	15.00 to 25.00	Nigellone	1.00 to 5.00	1.00 to 5.00
ordinary	2.00 to 8.00	2.00 to 8.00	Adiantum Cuneatum	.50 to 1.00	.50 to 1.00
Golden Gate, fancy	8.00 to 10.00	8.00 to 10.00	Croweanum	1.00 to 1.50	1.00 to 1.50
ordinary	2.00 to 4.00	2.00 to 4.00	Smilax	10.00 to 25.00	10.00 to 25.00
Chatenay, fancy	8.00 to 10.00	8.00 to 10.00	Asparagus Plumosus	25.00 to 35.00	25.00 to 35.00
ordinary	2.00 to 4.00	2.00 to 4.00	" & Sprenger, bunches	20.00 to 25.00	20.00 to 25.00
Carnations, Fancy	2.00 to 3.00	2.00 to 3.00	Lilacs per 100 bunches	40.00 to 60.00	40.00 to 60.00

JOHN YOUNG
Wholesale **FLORIST**
51 West 28th St., New York
Telephone, 4463-4464 Madison Sq.
Best Beauties, Brides and Bridesmaids.
Lily of the Valley, Orchids and
Lilies. Renowned Cottage
Garden Carnations.

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Tel. 1462 Madison Sq. New York
1463

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Michigan Cut Flower Exchange

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Send for Our Weekly Price List on Cut Flowers.

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Commission Merchants in Cut Flowers
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Telephone 356 Madison Square

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Wholesale Florists

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Long Distance Phone 1435 Court.

Bonnot Bros.

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Flosses Leaf Mold. Orchid and Azalea Peats, Fresh
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Tel. 1519 Madison Sq.

E. A. BEAVEN

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lish stock. Prices \$10.00 and
\$12.00 per hundred. See sam-
ple at Stall No. 52 Park Street
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ROSES, CARNATIONS

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WM. F. KASTING

Wholesale Commission Florist, also Dealer in
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L. D. Telephone, Main, 2618.

WHOLESALE FLOWER MARKETS. — PER 100. — TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	March 19		March 19		March 20		March 19	
ROSES								
Am. Beauty and Edgely, fan and sp.	40.00	to 50.00	50.00	to 60.00	40.00	to 50.00	50.00	to 60.00
“ extra	25.00	to 30.00	30.00	to 50.00	25.00	to 40.00	30.00	to 40.00
“ No. 1	15.00	to 20.00	25.00	to 30.00	15.00	to 25.00	15.00	to 20.00
“ Lower grades	5.00	to 10.00	10.00	to 15.00	5.00	to 25.00	-----	to 5.00
Bride and Maid, fan. and sp.	-----	to 8.00	10.00	to 12.00	10.00	to 12.50	12.00	to 15.00
“ extra	5.00	to 6.00	7.00	to 8.00	8.00	to 10.00	8.00	to 10.00
“ No. 1 and Lower gr	3.00	to 4.00	4.00	to 6.00	5.00	to 8.00	4.00	to 6.00
Liberty, fancy	-----	to 8.00	10.00	to 12.00	10.00	to 12.00	-----	to 8.00
“ Ordinary	4.00	to 6.00	5.00	to 8.00	4.00	to 8.00	4.00	to 6.00
Richmond, Fancy	-----	to 8.00	8.00	to 10.00	10.00	to 12.00	15.00	to 25.00
“ Ordinary	-----	to 4.00	4.00	to 7.00	6.00	to 10.00	6.00	to 10.00
Golden Gate, Fancy	6.00	to 8.00	6.00	to 8.00	8.00	to 10.00	8.00	to 10.00
“ Ordinary	3.00	to 4.00	4.00	to 6.00	4.00	to 8.00	4.00	to 6.00
Chatenay, Fancy	-----	to 8.00	8.00	to 10.00	8.00	to 10.00	12.00	to 15.00
“ Ordinary	-----	to 4.00	4.00	to 8.00	5.00	to 8.00	4.00	to 8.00
CARNATIONS								
Fancy	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Ordinary	1.00	to 2.00	2.00	to 3.00	1.50	to 2.50	1.00	to 2.00
MISCELLANEOUS								
Cattleyas	-----	to 50.00	-----	to 50.00	-----	to 50.00	-----	to 50.00
Lilies	12.50	to 15.00	10.00	to 14.00	10.00	to 15.00	12.50	to 15.00
Callas	10.00	to 12.50	-----	to 12.50	8.00	to 12.00	10.00	to 12.50
Lily of the Valley	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00
Violets	.50	to 1.00	.75	to 1.00	.40	to .60	.25	to 1.00
Tulips	2.00	to 4.00	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
Roman Hy. ; Paper White Nar	2.00	to 4.00	3.00	to 5.00	2.00	to 3.00	2.00	to 3.00
Daffodils; Trumpets	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00	3.00	to 4.00
Freesia	-----	to 1.00	-----	to 1.00	1.00	to 2.50	2.00	to 3.00
Mignonette	-----	to 4.00	-----	to 4.00	2.00	to 4.00	1.50	to 3.00
Adiantum Cuneatum	1.00	to 1.50	.75	to 1.00	.50	to 1.00	-----	to 1.00
“ Croweanum	-----	to 1.00	-----	to 1.00	1.25	to 1.50	-----	to 1.50
Smilax	12.50	to 15.00	12.00	to 15.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, strings	40.00	to 50.00	-----	to 50.00	25.00	to 50.00	30.00	to 50.00
“ & Sprengeri, bunches	-----	to 35.00	2.00	to 30.00	25.00	to 50.00	50.00	to 50.00
Lilacs per 10 bunches	-----	to 75.00	-----	to 75.00	-----	to 75.00	50.00	to 75.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

TO BUYERS

Patronize our Advertisers, they will treat you right

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ASPARAGUS.

Asparagus Plumosus nanus seedling plants ready for potting. Emerson C. McFadden, Short Hills, N. J., \$1.50 per 100, \$10.00 per 1000.

Asparagus Sprengeri, 2 1-2-in., \$2.25 per 100. Otto Bourdy, Lowell, Mass.

ASPARAGUS ROOTS.

Forty thousand Barr, Mammoth 4-year-old roots, suitable for forcing at \$6 per 1000 or 5000 for \$25.00. Can ship at once. Write quick. Ground must be cleared. W. F. Allen, Salisbury, Md.

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Aster Kate Lock.

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Begonia Gloire De Lorraine.

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Flowering Begonias, 2-in., \$1.00 per 100.

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Yokohama Nurseries, 31 Barclay St., New York.

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CANNAS.

W. F. Kasting, 383-87 Ellicott St., Buffalo, N. Y.

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Cannas, 15 varieties. Also Dahlias and

Gladliol. Write for price list. O. B. Stevens, Shenandoah, Iowa.

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Chrysanthemum cuttings. Monrovia,

Glory of Pacific, Polly Rose, Robinson,

Philadelphia, White Bonaffon, Fitzwy-

gram, G. S. Kalb, Robt. Halliday, John

Shrimpton, May Bonaffon, Col. Appleton,

Niveus, Bride, White Ivory, Cullingford,

Arline, Maud Dean, Mutual Friend, W.

Lincoln, Jerome Jones, J. G. Jones, Tim-

othy Eaton and Mme. Perrin at \$1.50 per

100; \$12.50 per 1000.

Opah, Princess, E. Bonnefond, Alliance,

Fred Lemon, Mrs. Brice, La Tuslon, Mers-

tham Yellow, Mildred Ware, Wm. Duck-

ham, Amorita, Dr. Enguehard, Mrs. F. W.

Pockett, Nellie Pockett, Ben Wells, F. S.

Vallis, Mrs. Thirkell at \$2.50 per 100; \$20.00

per 1000.

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N. Y.

COLEUS.

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S. S. Pennock, Philadelphia.

Dahlia Roots.

Dahlias, fine, strong bulbs; also cannas

and gladiolus. Write for price list. O. B.

Stevens, Shenandoah, Iowa.

Field grown, mixed varieties, whole roots

\$4.00 per 100. W. F. Allen, Salisbury, Md.

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FANCY ROCKY FORD

Cantaloupe seed, wholesale per 100 lbs.

\$20.00. W. F. Allen, Salisbury, Md.

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Ferns for jardineres, good varieties, \$3.00 per 100, cash. J. H. Fieser, 415 Summit Avenue, West Hoboken, N. J.

Ferns, Japanese or Mikado fern ball, new importation now in and ready for shipment, in dormant condition; 8 inc. in diameter, \$2.25 per doz., \$18 per 100 f. o. b. Crossman Bros., Rochester, N. Y.

FERTILIZERS.

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Gladiolus, 3 A No. 1 strains, extra fine; also canna and dahlias. Write for price list. O. B. Stevens, Shenandoah, Iowa.

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Boston Plate & Window Glass Co., Boston.

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Anchor Greenhouse Hose is the best for Florists.

Mineralized Rubber Co., New York.

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Double Nasturtiums, 2-in., \$1.00 per 100.

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Hart Pioneer Nursery, Fort Scott, Kansas.

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2,000 Norway Maples transplanted, straight and fine stock, 2 to 5 feet. Cheap for cash, or will exchange for some kinds of stock. O. C. Bailey, Newburyport, Mass.

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Lager & Hurrell, Summit, N. J.

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PATENTS.

Siggers & Siggers, Washington, D. C.

Patents, Trade Marks, and Copyrights.

25 years' active practice.

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1789. High Grade Grass, Clover, and Tree Seeds.

Seeds, 100,000 fresh greenhouse grown
Asparagus plumosus seed, \$2.50 per 1,000
on large lots. Henry Young, Ada, O.

SEED CASES—MICE PROOF.

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Wm. Murphy, 128 E. 3d St.

Detroit.

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Miami Av. Wm. Dilger, mgr.

New York.

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York.

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Ford Bros., 48 West 28th St., New York.

H. E. Froment, 57 W. 28th St., New York.
Alex. J. Guttman, 43 West 28th St.

E. C. Horan, 55 West 28th St., New York.
Philip F. Kessler, 55 W. 26th St., New
York.

Julius Lang, 53 West 30th St., New York.
A. H. Langjahr, 55 W. 28th St., New York.

James McManus, 50 W. 30th St., New York.
Chas. Millang, 50 West 29th St., New York.

Frank Millang, 55-57 W. 26th St., New
York.

A. Moltz, 55-57 W. 26th St., New York.
John J. Perkins, 115 W. 30th St., New York.

John L. Raynor, 49 W. 28th St., New York.
W. F. Sheridan, 39 W. 28th St., New York.

Traendly & Schenck, 44 W. 28th St., N. Y.
A. L. Young & Co., 54 W. 28th St., N. Y.

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ROSES, KILLARNEY.

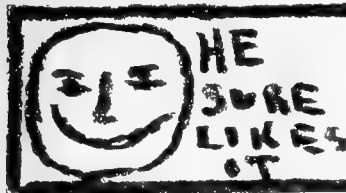
Rose Hill Nurseries, New Rochelle, N. Y.
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A. T. Boddington, New York.
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SPIRAEA JAPONICA.

J. C. Schmidt Co., Bristol, Pa.
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For a number of years we have used the FUMIGATING KIND TOBACCO POWDER; it has never yet failed to do the work claimed for it. We use it for everything as it positively will not harm foliage.

WM. G. SALTFOORD, Pokeepsie, N. Y.

Why not ask for a free five pound trial sample, it's convincing, it only costs you the express charge. It's no new fangled thing, hundreds write of it like Mr. Wm. G. Saltford. Our booklet tells how to fumigate a house 100x25 feet with it for fifteen cents. THE H. A. STODOLFF COMPANY, 119 West Street, New York City, N. Y.

CUT FLOWER MARKET REPORTS.

Business in St. Paul and Minneapolis has been a little better the past week. Notwithstanding Lent, there are many reasons why the flower trade should be fair, and no matter what the season may be, funerals must have flowers. So after all, the florists manage to keep busy. Stock of all kinds is plentiful now. In carnations, Lawson and Enchantress lead, but roses of every description are in such abundance that they really have no leader. Tulips, sweet peas, violets and all small stock are very good, and among the larger flowers *Harrisii* and *callas* are supreme. A few high grade snap-dragons are to be had at high prices.

Business has been considerably better than during the first weeks of Lent. Contrary to custom, we had beautiful weather for St. Patrick's day, which was really the first good day in a week. This partly accounts for the very good trade, as by 2 P. M., there were no Beauties to be bought in town, and very few violets and carnations.

INCORPORATED.

The Waxahachie Nursery Co.: J. R. Mayhew, C. C. Mayhew, W. W. Robinson, Baltimore, Md.

E. Smith & Sons Co.: Nelson C. Smith, Wm. A. Smith, F. R. Smith. Capital stock, \$150,000. Geneva, N. Y.

The Chicago Wholesale Florists' Association: C. M. Dickinson, Leonard Kill, E. E. Peiser, Chicago, Ill.

The Albany Nurseries: Albert Brownell, J. R. Houseweart, B. F. Pierce, Albany, Ore. Capital, \$25,000.

LIST OF PATENTS.

Issued March 13, 1906.

- \$14,799. Fruit Clipper. Howard H. Petty, Pomona, Cal.
- \$15,132. Lawn Mower. Howell P. Terry, Elizabeth, N. J., assignor to George F. Cornell, Brooklyn, N. Y.
- \$15,242. Grass Collector for Lawn Mowers. La Fayette Wildermuth, Columbus, Ohio.

The official zoologist of the State of Pennsylvania says he has tried all of the remedies sold under patent or fancy name for the destruction of San Jose scale, and says none of them are as good as the lime-sulphur wash. Salt is not necessary, but will do no harm. It causes the spraying apparatus, especially the nozzles, to wear out much faster, and does not make the liquid stick much better, if any. His recipe in brief is: Twenty-two pounds fresh stone lime and 17 pounds flowers of sulphur boiled together one hour. Add enough water to make 50 gallons. Apply any time before the buds burst.

GREENHOUSES BUILDING AND PROJECTED.

- Milwaukee, Wis.—B. Gregory.
- St. Paul.—C. Bussjaeger, one house.
- Lebanon, Pa.—C. C. Yost, two houses, 30 x 140.
- Lowell, Mass.—Roper, the Florist, one house.
- Owings Mills, Md.—W. Terry, one house, 21 x 115.
- Berlin, Ont.—H. L. Jansen, four houses, 25 x 300.
- Charles City, Ia.—Sherman Nursery Co., three houses.
- Meramec Highlands, Mo.—N. Him-mers, five houses.
- Natick, Mass.—Robert Montgomery, one house, 40 x 350.
- Baltimore, Md.—Loudon Park Cemetery, one house; 25 x 50.
- Orion, Mich.—Harvey & Sons, four houses, each 25x100; two houses, each 20x100.

FIRE RECORD.

Two greenhouses belonging to William E. Lacey at Victoria Bismarck, near Easthampton, Mass., were destroyed by fire on March 16.

Two greenhouses owned by D. E. Horton of S. Rehoboth, Mass., stocked with cabbage and tomato plants, were burned on March 13. Loss \$800.

The Brookside Greenhouses, owned by Andrew Olsen, Fall River, Mass., were destroyed by fire on March 14. Loss is estimated at nearly \$4,000, partly covered by insurance.

George Patty will continue the business of the late H. C. Beebe, at 70 Ferry street, Middletown, Conn.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insure better service. Personal attention guaranteed. Twenty-five years' active practice. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS

PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

IT IS TIME

TO MAKE YOUR

Easter Announcements

Good number next week

Special number April 7

**Either of Them
Will Pay You**

WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order.

TO LEASE FOR A TERM OF YEARS any greenhouses consisting of about eighteen thousand feet of glass, all Hitchings & Co. boilers, and four of the houses are also Hitchings & Co.'s construction; city water on premises, two trolley lines one block, and railroad station two blocks from the premises; three miles from 34th St. ferry. Geographically they are in the centre of Greater New York. If you want a place this is a rare chance, so do not write but come see it, possession June 1st, 1906. Apply to Alex S. Burns, 128 4th St., Woodside, Queens Borough, N. Y.

FOR SALE—Two greenhouses, 23x95, 20x68, with hot water heating apparatus and well stocked with Carnations and Violets. Will sell as it is with dwelling house attached and 17,000 feet of land, or to be taken down and removed. Address 703 Chestnut St., Waban, Mass.

WANTED—A first-class Fern Grower, one who has had experience. Good wages, steady position. Send references. R. H. N., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—To lease or buy, a place with 15,000 or 20,000 ft. of glass, in good location, vicinity of Boston, suitable for raising roses and carnations. R. D., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED.—I would like to place my son, age 19 years, in a good private or commercial establishment. He has some knowledge of the business. Thomas Heskay, gardener to Lt. Gov. E. S. Draper, Hopedale, Mass.

WANTED—Position as Head Gardener. English, age 26, single, good experience, outside and under glass, good references, disengaged April 1st. H. Gaut, Dalton, Mass.

USEFUL BOOKS.

- MANUAL OF THE TREES OF NORTH AMERICA (Sargent); 826 pages, 644 illustrations; \$6.00.
- THE HORTICULTURISTS' RULE-BOOK (Bailey); 312 pages; illustrated; 75 cents.
- THE DAHLIA (Peacock); revised edition; 30 cents.
- CHRYSANthemum MANUAL (Smith); 120 pages; illustrated; 40 cents; revised edition ready April 1.
- THE CHRYSANTHEMUM (Herrington); 50 cents.
- HOW TO MAKE MONEY GROWING VIOLETS (Saltford); 25 cents.
- THE FIRST COUNTY PARK SYSTEM (Kelsey); 300 pages; illustrated; \$1.25.
- A MANUAL ON THE PROPAGATION AND CULTIVATION OF THE PAEONY (Harrison); illustrated; 30c.
- THE AMERICAN CARNATION, by C. W. Ward, is a book every grower of that flower should have in his library. Price \$3.50.

— ORDER FROM —
HORTICULTURE PUBLISHING CO., 11 Hamilton Pl., Boston

To Meet All Demands



of design and erection of the greenhouse man, is a task in itself—to bring to this man all the advance ideas, the accepted practical improvements in greenhouse construction is what we also do. There's not a better house built.

HITCHINGS & COMPANY
Greenhouse Builders and Designers
1170 BROADWAY, NEW YORK

STANDARD PLATE GLASS CO.

Manufacturers, Importers and Jobbers
AMERICAN AND FRENCH GREENHOUSE GLASS
26-30 Sudbury Street
61-63 Portland Street
BOSTON

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

Holds Glass Firmly
See the Point **FULL SIZE N° 2**
PEERLESS
Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.

Standard Flower.. POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money
W. H. ERNEST,
28th and M Streets, WASHINGTON, D. C.

FOR SALE

GARDEN HOSE New ¾-in., guaranteed 100 lbs. pressure, 7½ cts. per ft. ¾-in. not guaranteed, 4½ cts. per ft.

HOT-BED SASH New Cypress, 3 ft. x 6 ft., from 75 cts. up; glazed, complete, from \$1.60 up. Second-hand, in good condition, all glass in, at \$1.25 and \$1.00 each

PIPE Good serviceable second-hand, with Threads: 2-in., 7 cts.; 1½-in., 5½ cts.; 1¼-in., 4 cts.; 1-in., 3 cts.; ¾-in., 2½ cts.; 3-in. 14 cts.; 4-in., 19 cts. New 2-in. Standard, full lengths, with couplings, 8¾ cts. ft. Old and new fittings and valves.

GLASS New American 10x12 single \$1.75, per box; 12x12 single \$1.90, per box; 10x12, 12x12, 10x15, double \$2.65, per box; 12x14, 12x20, 14x14, 14x20, double, \$2.88, per box; 16x16, 16x18, \$3.10; 16x24, double, \$5.30 per box.

Get Our Prices On
BOILERS, PUMPS, STILLSON WRENCHES, STOCKS AND DIES, PIPE CUTTERS, PIPE VISES, CYPRESS-MATERIAL, ETC.

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.

POT MAKERS FOR 140 YEARS

A. H. HEWES & Co. Inc.

CAMBRIDGE, MASS.

OF EVERY KIND FLOWERS

Garman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse.
Nonpoisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. \$1.50 per gallon. Also in quarts, half gallons and in bulk. Send for circulars.

PERFECTION CHEMICAL CO.
Flushing, N. Y.

NIKOTEEN APHIS PUNK

THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT

WIDELY IMITATED BUT NEVER EQUALLED
UNIFORM AND ALWAYS EFFECTIVE

DON'T ACCEPT INFERIOR IMITATIONS
PRICE 60¢ PER BOX OF 12 SHEETS
\$6.00 PER CASE OF TWELVE BOXES.

NICOTINE MFG. CO. ST. LOUIS, MO.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 2 ½ " " " 5.25	60 8 " " " 3.00
1500 3 " " " 6.00	HAND MADE
1000 3 " " " 5.00	48 9 in. pots in crate \$3.60
800 3 ½ " " " 5.80	48 10 " " " 4.80
500 4 " " " 4.50	24 11 " " " 3.60
320 5 " " " 4.50	24 12 " " " 4.80
144 6 " " " 1.16	12 14 " " " 4.80
	6 16 " " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases etc. Ten percent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

YOU } WANT } ORDERS
WE } } ADVERTISING
LET US GET TOGETHER



HORICUM FOR
SAN JOSE SCALE

"The Day After Thanksgiving."

Flushing, L. I., N. Y., Nov. 25, 1904.

Mr. Benjamin Hammond, Fishkill-on-Hudson, N. Y.

Dear Sir:—I have used your "Grape Dust" for the last six years in all my Rose Houses and find it is the very best preservative against Mildew, and it also checks Green-fly and other vermin.

Very truly yours,
A. L. THORNE.

HAMMOND'S GRAPE DUST IS SOLD BY SEEDSMEN

"SOLUTION OF COPPER," "BORDEAUX MIXTURE,
GENUINE," SLUG SHOT, FOR SOW BUGS, ETC.

In writing to Advertisers kindly mention Horticulture

"BEST GREENHOUSE MATERIAL"

The best is the cheapest in the end. "Cheap" greenhouse material is expensive.

It costs just as much to erect houses with poor material as it does with the best—usually more.

The houses must be often repaired and the work and cost of erecting soon repeated.

The progressive florist uses the best as he knows it pays to pay for quality.

Send for an estimate on your present needs and let us tell you about our material—the best material.

JOHN C. MONINGER CO.—Chicago
117 E. BLACKHAWK STREET

GREENHOUSE MATERIAL
OF ALL KINDS
FOLEY MFG. CO. 471 W. 22ND ST. CHICAGO
VENTILATING APPARATUS PURLIN FITTINGS, HOT-BED SASH &c.
SEND FOR NEW FREE ILLUSTRATED CATALOGUE -

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE 74 FRANKLIN ST. BOSTON

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,
35 Erie Street, CHICAGO.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

BY SLIPPING A

PEERLESS GLASS REPAIR CLAMP

over a cracked glass you protect your stock, save coal and glass. Do it now before the high winds play havoc with your roofs. \$1.00 will repair 150 lights. Ask your supply man, or

A. KLOKNER, Wauwatosa, Wis.

Endorsed by about 400 prominent florists.

In writing to advertisers kindly mention HORTICULTURE.

SEND FOR CATALOGUE OF
SCOLLAY HOT WATER
and STEAM BOILERS
JOHNA. SCOLLAY

73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

N. TONAWANDA,
N. Y.

TORONTO,
ONT.

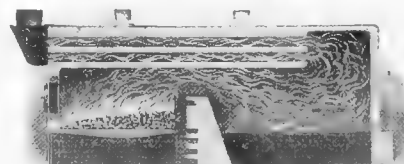
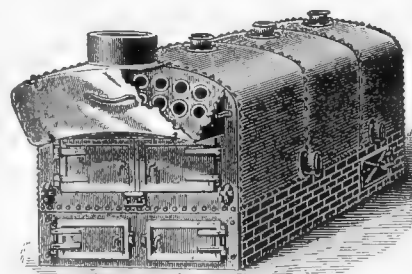


Greenhouse Material

Ask for our Special Catalogue No. 554 describing Boiler Tubes, Boilers, Tubes, Sash, Lumber and Supplies of every kind from the Fifty Million Dollar St. Louis World's Fair.

CHICAGO HOUSE WRECKING CO.
35th and Iron Sts. CHICAGO

YOU } WANT } ORDERS
WE } WANT } ADVERTISING
LET US GET TOGETHER



Boilers made of the best material, shell, prebox sheets and heads of steel; water space all around front, sides and back. Write for information.

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.

Interior view of three connected houses, each 24 ft. wide — Our Standard Iron Construction.



Erected complete and heated with the Weathered Sectional Boiler for Chatterton Warburton, Fall River, Mass.

Write him. Send for Catalog.

Weathered Company
46 MARION ST., NEW YORK

About Sizes Again

Last week we talked together about the 46 feet house and some of the economies in maintaining these large houses — but the erection costs are just as strong in their arguments. Growers seem inclined to ignore the fact that a house 11 feet wide requires the same sides and ridge, same work to frame; same glass and paint and same heat as the 30 feet house.

One wide house is not only cheaper to maintain than two small houses of equal area, but a great deal cheaper to erect.

Cutting expense down is one thing; cutting it off at both ends (building end and maintaining end) is another. The large house, cuts both ends.

LORD & BURNHAM CO.

Greenhouse Designers and Manufacturers

1133 Broadway, cor. 26th Street, New York

Boston Branch, 819 Tremont Building

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special "PECKY CYPRESS" Position to Furnish

Everything in PINE and HEMLock BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

FINE SILVER CUPS and TROPHIES

For Exhibition Awards, Sporting Events, etc.

FINEST ASSORTMENT IN THE COUNTRY
FROM THE BEST MANUFACTURERS AND
AT LOWEST PRICES.

THORNTON BROS.,

LAWRENCE, MASS.

The Only Perfect Tomato and Plant Support

Made of Heavy Galvanized Wire



\$1.75 per Dozen

\$12.00 per 100

Height complete	34 inches
" of bottom section	24 "
" " top	12 "
Diameter of circle	14 "

Manufactured
by

IGOE BROS.

226 North 9th St.
Brooklyn, N. Y.

HORTICULTURE

Vol. III.

MARCH 31, 1906

No. 13



PARTIAL VIEW OF AMERICAN ROSE SOCIETY EXHIBITION.
Horticultural Hall, Boston

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

Announcement

We issue the handsomest and most complete Rose Catalogue in America. It is replete with half-tone illustrations, and also contains five handsome lithograph color plates and illuminated covers in ten colors and gold, and describes over seven hundred varieties of Roses all of decided merit, including the latest American and European novelties, as well as a complete list of Hardy Shrubs, Vines, Perennials, Violets, Chrysanthemums, Carnations, Cannas,



Miscellaneous Bedding Plants, Geraniums, Lilies, Flowering Bulbs, Fruits, Flower and Vegetable Seed.

Send to-day for our **New Guide to Rose Culture for 1906.** It is free. The prices given are retail,—send us your list for wholesale quotations. *Address*

The DINGEE & CONARD CO.

70 Greenhouses

WEST GROVE, PA.

Established 1850

NOVELTIES IN ROSES

The four magnificent novelties from Pernet-Ducher, viz.: Mme. Philippe Rivoire, Mme. Melanie Soupert, Mme. Jeannie Gillemot and Instituteur Sirdey,—these are four justly famed varieties from his celebrated strain.

Cherry Ripe from George Paul & Son,—this might be termed a dwarf American Beauty, a fine variety; Angelo Peluffo, Reine de Italy, two handsome additions from Soupert. Three new hybrid Rugosa roses from M. Gravereaux—these should prove unusually interesting for American gardens. Hugh Watson, Hugh Dickson, Gartenwalt, three promising H. P's, La Neige and Venus, two interesting novelties in the Moss section.

We will send 12 of these novelty introductions for \$5.00; or where 50 are taken, \$17.50; \$35.00 per hundred.

Our collection of novelty Chrysanthemums is the finest and most select of all in the United States; we are offering some unusually fine exhibition novelties not catalogued by any other firm in the country. We will select for any one 12 of the very finest novelties of the year for \$5.00, or one hundred for \$35.00.

Remember you can get Richmond roses from the originator by sending to us—price on plants or rooted cuttings on application.

400 plants of Polygonum Balduschianicum, one of the finest new plants, hardy, produces a wealth of white flowers. \$3.50 per dozen, strong plants.

The E. G. HILL CO., **Richmond, Indiana**

READ WHAT EXPERT JUDGES HAVE TO SAY ABOUT *QUEEN BEATRICE*

THE GASSER
COMPANY,
Choice Cut Flowers
and Artistic Flor-
al Work,
Euclid Avenue,
Cleveland, O.,
March 17, 1906.

Mr. F. H. Kramer,
The sample blooms
of your new rose,
Queen Beatrice,
came in perfect con-
dition and we want
to say "it is a
beauty," and we
find it lights up per-
fectly under artifi-
cial light and as to
its keeping quali-
ties, it is unsur-
passed; as it was in
perfect form and
color several days
after received by
us.
Respectfully yours,
THE GASSER CO.

BLACKSTONE,
Florist,
Washington, D. C.,
Mr. F. H. Kramer,
Washington, D. C.

Dear Sir:—
Permit me to
commend you on
success in getting
the exclusive control
of the new pink
rose, which you
have since named
Queen Beatrice.
I consider it a
splendid thing, and
I believe it will
prove to be one of
the most profitable
varieties, for the
grower especially,
that we have had
in years.
Very truly yours,
Z. D. Blackstone.

THE LEO NIES
SEN COMPANY
Wholesale and Com-
mission Dealers in
Cut Flowers,
Plants, Supplies,
1217 Arch Street,
Philadelphia, Pa.,
Mr. F. H. Kramer,
Dear Sir:—

We do not hesi-
tate to say that the
Queen Beatrice
would prove a very
desirable acquisition
to our roses. We
are not in a posi-
tion to speak about
its productiveness,
etc., we will leave
that for the grower
to say, but commer-
cially, its selling
qualities are beyond
question. We feel
confident that we
could find a ready
market for the flow-
ers, and believe, as
from all accounts it
is very productive,
Queen Beatrice cer-
tainly will have a
great future.

Wishing you suc-
cess, we remain,
Yours respectfully,
THE LEO NIES
SEN CO.,
Per A. W. N.

GUDE BROTHERS CO.
Florists and Floral Decorations,
1214 F St., N. W.,
Washington, D. C., January 18, 1906.

Mr. F. H. Kramer, Dear Sir:
In reference to the new Rose, "Queen Beatrice," I am pleased
to say that I have watched it growing and blooming for more
than two years and believe it to be one of the best and most
profitable for every cut flower grower, having all the good quali-
ties and apparently no bad ones, it being a free grower of prodigious
color on long stiff stems and of them.
Very truly yours,
WM. F. GUDE.

Wholesale Florist,
Mr. F. H. Kramer,
Washington, D. C.,
I had quite some
time to look over
your new rose,
"Queen Beatrice,"
and I am very
pleased to say
that it is a
very fine rose,
both in shape and color, and
I am sure it will
be a great success.
Yours very truly,
GEORGE FIELD.

GEORGE FIELD,
3507 Brightwood Avenue,
Washington, D. C., March 9, 1906.
I wish to state that
I have seen "Queen Beatrice," I have
pressed with it and thought it would
be a great success, the length of stem, size of
buds, both in shape and color, and
the Rose covers. Yours very truly,
GEORGE FIELD.

EDWARD REID,
Wholesale Florist,
1526 Ransstead St.,
Philadelphia, Pa.

Mr. F. H. Kramer,
I wish to congrat-
ulate you on your
new pink rose,
"Queen Beatrice." I
consider it a rose
entirely in a class
by itself, and up to
the present time I
do not think we
have anything to
compare with it. As
a wholesaler, I pre-
dict an enormous
demand for same,
and you can feel
assured that when-
ever the blooms are
ready to market,
Philadelphia wants
its share.

Yours respectfully,
EDWARD REID.

GEO. C. SHAFFER
Florist,
Phone 2416 Main,
14th and Eye Sts.,
N. W.

Washington, D. C.
Queen Beatrice, the
new Rose grown by
F. H. Kramer, is a
beauty. The dark
green foliage, long
stiff stem, and mag-
nificent flowers
which are simply
beautiful at all
stages of develop-
ment, from the
small buds to full,
open flowers, which
have an agreeable
fragrance, together
with its color,
which has a pleas-
ing effect, are sure
to make the rose
popular and well
worthy of the name
Queen.

As a seller it
ought to be unsur-
passed.
GEO. C. SHAFFER

S. S. SKIDELSKY,
Philadelphia, Pa.

Mr. F. H. Kramer,
I wish to congrat-
ulate you upon the
success of your
"Queen Beatrice."
That your rose is a
winner, goes with-
out saying, and that
it is sure to replace
some of the "stand-
ards" of today
seems to be the
foregone conclusion
of those who saw it
at your place.

As you know, I
am ever after and
in quest of "good
things," and, as a
matter of course,
should like to be on
the "ground floor"
with Queen Bea-
trice.

Kindly let me
hear from you re-
garding prices,
terms, etc., and
oblige,
Very truly yours,
S. S. SKIDELSKY.

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Hybrid Teas,
Teas, etc.

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On
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roots.

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Climbers, etc.

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HORTICULTURE

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Cowslips, large flowered.....

upright Hybrids.....

Giant Marguerite Carna-
tion, mixed.....

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the finest mixture in ex-
istence

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Streptocarpus Wendlandii



Streptocarpus Wendlandii introduced from South Africa in 1890, is not as familiar as its beauty deserves. Its pleasing blue flowers so freely produced from the axil of the leaf, make it one of the most desirable winter plants for the conservatory, and its odd habit of producing only a single leaf, makes it a unique and interesting specimen, with a charm all its own. Unlike the other varieties of *Streptocarpus* usually met with *S. Wendlandii* has flower-stems eighteen inches or more in height, and makes a fine flower for cutting for decorative purposes, its keeping qualities being especially commendable, as it will keep good for ten days after being cut, and will mature the undeveloped buds. These flowers follow each other in very precise succession, as the illustration shows, until four or five have started up, then it commences from behind the first flower, and sends up numerous spikes, which continue in flower for a long time, each plant lasting many weeks. Its pleasing pale blue color is very desirable, and it should become a general favorite for cut flowers.

They are easily produced from seed, the only difficulty being their tendency to damp off in the early stages of their development, but once they are pricked off they should be grown along with liberal treatment, in a temperature of about 65 deg. in a light position, shading from bright sunshine, and liberally treated from the first potting. Seed sown in January should flower about November until after Christmas if the plants are kept busy, and not allowed to rest. A house of these in bloom at the present moment is a very pleasing sight, having started to flower in December, the same spikes continuing to flower profusely and

apparently will do so for some time yet. The seed pods should be picked off as they appear.

Alfred J. Lowbess.

Echoes from England

SOME NEW PLANTS

A distinct and beautiful new freesia was shown before the Royal Horticultural Society March 7. It was raised and exhibited by C. van Tubergen, Jr. It is distinct and attracted much attention. Its parents were the well-known *Freesia refracta alba* and the rarer *Freesia Armstrongi* with pale pink or lilac-pink flowers. The new freesia is really a much improved form of *Armstrongi*; the flowers are larger and are more freely produced. Some of the stems exhibited bore as many as ten and eleven flowers; in fact ten may be said to be the average number. The prevailing color of the blooms is lilac or lilac purple, while white shows through here and there. The flower stems are long and the plant is a vigorous grower and blooms very freely. The flowers ought to prove very useful for decorative purposes. An award of merit was granted to this novelty.

Carnation Nelson Fisher also obtained an award of merit as a valuable novelty. It was exhibited by A. F. Dutton, one of the largest growers of American varieties of the carnation. The flowers are large and full, with the usual fringed edge; the color is rich cerise and very showy. The blooms are produced on good stalks and it appears in every way to be worthy of the honor bestowed upon it.

Harry H. Thomas

Oncidium crispum



Herewith is a picture of *Oncidium crispum*, the plant bearing three spikes, aggregating 149 flowers. It is growing on a piece of board with a thin layer of osmun-da fibre attached to same for rooting material. This I think makes the best kind of receptacle for this particular species. The roots can roam about at will and don't have to turn any sharp corners as they have to in baskets. Besides this the plant can be watered freely without danger of over-watering, as all water drains off quickly and, outside of the thin layer of fern root, there is nothing to hold moisture for any length of time.

During the growing season which is from February to August or September, water is given very freely; in hot weather two or three times a day is none too much, but after the pseudo-bulbs have finished once or twice a week will be sufficient. The temperature of the house in which the plant is growing ranges from 45 to 52 degrees at night in winter with 10 to 15 degrees raise in day time; in summer the house is kept as cold as the weather will permit. Plenty of air is given at all times in summer from top and bottom and in winter as much as outside conditions will warrant.

In the same house *Oncidium varicosum* and other cool growing oncidiums, besides some odontoglossums, do very well. All plants are suspended from the roof, azaleas, calceolarias, primulas and other cold-growing subjects being grown on the benches.

M. J. Oake

Do Varieties Deteriorate?

I see it stated by another of your correspondents that it is now the belief of the majority that wearing out of varieties takes place through propagating them, by budding, grafting, cuttings, layers or division of the roots. That varieties may either be deteriorated or improved by crossing one with another through the flower and seed is evident, but that this can be effected by any other method of propagation so as to permanently affect the variety I, for one, am at a loss to understand.

Working upon a weak stock, neglect, over-crowding or poor feeding will of course deteriorate an individual tree or crop and, if persisted in, all crops of the same variety will eventually succumb. But if plants or seeds which have been injured by such causes are again subjected to the genial influences of good cultivation they will regain their normal condition and the variety will maintain its identity. Grain crops suffer by the same seed being planted too long on the same land, but change them on to other soil and locality and they will improve without having lost their identity as a variety. I remember, some years ago, having received some "Banner" oats, the yield of which was enormous! The sort was planted year after year and the quality and yield failed annually until at last one change was made with a friend at a distance who was suffering in the same way, and the result was each had an excellent crop of the true old "Banner" oat; no deterioration of variety, but only of the crops planted without judgment. If a variety is superseded by a superior one, that merely casts the old one into the shade but does not deteriorate it.

That a crop, or crops of potatoes may be spoiled by planting the small tubers is now well understood, but the whole family of the variety does not suffer, but only those which have been maltreated. The Early Rose was one of the most remarkable improvements ever effected in the potato. When its merits became known, the demand for it was so great that every means was adopted to increase it. I purchased a few tubers in the fall at \$1.00 per pound. I placed them in a propagating house in gentle bottom heat, and as they sprouted I took off cuttings and rooted them; when these grew I topped them, rooting the tops, and repeating the process every opportunity, also continuing to propagate the sprouts from the original tubers. When planting time came around I planted the whole in some very carefully prepared ground and, notwithstanding the heroic treatment they had been subjected to I had an excellent crop of ordinary sized tubers. The variety was not deteriorated, nor has it suffered any deterioration in all the years since then, for it is one of the finest flavored potatoes of the present day, and is evidently by no means extinct, nor is it deteriorated by age. Burpee of Philadelphia, one of the most enterprising seed houses in the world, advertise it in their last "Farm Annual," thus "True Early Rose; the standard early potato."

The argument that there is no new life except a plant is raised from seed is fallacious; indeed it is very difficult to produce some varieties true from seed and if we did not keep up the succession by means of the various methods of propagation above alluded to we should lose our most valuable varieties. If created beings, whether animal or plant, fail from old age it may be inferred that their progeny brought to life during their state of senility may have deteriorated, but why should all their offspring fail at the same time? It is true that fruit trees will grow old and cease to be fruitful, and it is probable that scions taken from such may have

become deteriorated in consequence of the weakness of the parent, but this does not interfere with the vigor or fruitfulness of scions taken from young, healthy trees of the same variety.

As to the Lombardy poplar (*Populus fastigiata*) it must be borne in mind that it is a native of Persia and no wonder that it should deteriorate in Europe where it would miss the saline quality of the soil and the more congenial warmth of the Persian climate. Neither is it true that the Lombardy poplar has failed everywhere. Green of Rochester is advertising it, this year as one of the best trees for screen or shield when planted thickly and ornamental when planted in groups. It is preposterous to suppose that such a firm as Green's Nursery Company would advise their customers to use a tree which is in a state of natural deterioration.

The bamboo is an exotic; in Great Britain there is no native species. It was thought at one time that the American bamboo could be acclimated, and usefully grown in the southern countries of England, but the experiment failed on account of the changed conditions and not because of the degeneration of the plants owing to their having been propagated by offsets or divisions. In fact this is the only way in which bamboos propagate themselves. When they have attained their full height, they send off, horizontally, or at right angles, a series of lateral branches, and these send up, at intervals, perpendicular canes, and form the tuft of a new plant.

Now for a few samples of varieties which have not grown worse or worn out by age. Of grapes there were in England twenty-three kinds of grape vines in 1629, and the Muscatine, Frontignacs, etc., are favorite sorts at the present day, not having suffered any deterioration by the various methods of propagation by layers, eyes, etc., to which they have been subjected for centuries. The old Black Hamburg is still a standard grape which cannot be dispensed with, neither in certain qualities has it been surpassed. The Fameuse apple, although it deteriorates in localities unfavorable to it, is still the standard variety of Montreal, and is just as handsome and delicious as ever, under fair cultivation and care.

It is affirmed by some that some of the choice old English apples have died out, but if so, I have no doubt it will be found that their disappearance has been caused by bad management and not by naturally deteriorating through age.

It is perhaps unfortunate that the rage for novelty has led to the neglect of good old sorts, and their popularity may have suffered in consequence but their intrinsic quality remains notwithstanding. Plant and fruit breeders do not wait for old varieties to fail before they attempt to supplant them, but are continually experimenting with a view of excelling them, and often with success, greatly to their own advantage and to that of the public, therefore their efforts deserve recognition and encouragement, and while we have no fear for the loss by deterioration of old varieties, which can only be brought about by the action of the organs of fructification or by a long series of malpractice, we shall do well to keep up the public interest by the introduction of new varieties of equal, if not of superior, merit.

Cattleya Warscewiczii



Cattleya Warscewiczii and *gigas* were for some time considered as distinct species, but are now known, among botanists at least, as one *Warscewiczii*.

The species is variable and it is not surprising that many horticulturists who pay little attention to the parts of the flower which are not apparent to the casual observer grow the extreme types under distinct names. The differences, however, between the types are bridged over by intermediate forms. The type which was and is yet in many cases grown under the name of *gigas*, strangely enough has flowers somewhat smaller than the other extreme and has from six to ten flowers to a spike. As far as we can learn the record is ten flowers to one spike. The plant shown in the accompanying illustration has made a double lead each carrying a spike of six flowers. What was known as *Warscewiczii* has larger and more brilliant flowers and seldom more than three or four to a spike.

The species *Warscewiczii* or *gigas* is generally considered a hard subject owing to its tendency to make a second growth which is not matured before the short days and is generally smaller than the preceding one, and as it does not flower is of no value. The flowers come in June or July on the growths made in spring and early summer and, as at that time of the year it is impossible under ordinary conditions to rest the plants, the only thing to do is to keep them going and make the best of it.

It is also considered a hard subject because of a habit it has of making fine healthy looking growths which do not flower. This has, however, been traced to an insufficient amount of light and air. *Cattleyas* as a rule like plenty of both, but *Warscewiczii* should have the lightest and airiest place in the house.

Among growers who favor leaf-mould for many orchids it is the general opinion that this species will not succeed in it. The plant shown was the only one of a batch of two dozen grown in leaf soil and was the best flowered and made the strongest pseudo-bulbs of the lot.

Geo. Moore

James Hutchinson

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GARDENER AND KINDRED

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WM. J. STEWART, Editor and Manager.

Lengthening the rose list

The rose industry as followed by the growers for cut flowers has had to submit to more or less derision hitherto on account of the restricted number of varieties grown for market. "Beauty Bride and Maid" have been harped upon as a reproach and an evidence of narrow unprogressiveness and not without reason. The awakening seems to have come at last and he would be a rash man who would venture today to predict the number or the names of the varieties which will be included in the regular stock of the average florist three to five years hence.

Explaining the absence of the small exhibitor

The complaint frequently heard to the effect that no inducement is held out to the small grower to take part in the flower shows seem to have no foundation as applied to the American Rose Society at least. The fact is that there were scores of classes in the Boston schedule, many of them inserted for the express purpose of interesting the small growers, for which there was not a solitary entry. We would cite, for example, Division B, open only to growers having less than 40,000 feet of glass, limited to twelve cut blooms in twenty-six classes, one of which was an unlimited class as to variety shown, in which but three classes were competed for, although the prizes were certainly liberal enough. It would seem that those who are seeking an explanation of the absence of the small grower from the boards are decidedly on the wrong scent, in this instance at last.

The financial problem in the societies

How to secure a sufficiently stable financial foundation to enable a body such as the American Rose Society to plan ahead and carry to a success its legitimate activities is a problem not easy of solution, as many a well-meaning society has sadly realized. In the discussion on this subject at the Rose Society meeting last week enthusiasm in words ran high as on various occasions in the past. But it takes something more than oratory and resolves to extract the necessary hard cash and substantial subscriptions for permanent funds are much simpler as a mental proposition than a tangible reality. There can be no argument as to the desirability of a permanent fund—it is almost indispensable to the life of an organization, but the amount required to produce an adequate annual income

at three or four per cent. interest seems an insurmountable difficulty and it is not likely that many of our societies will soon see the day when persistent importunity for annual dues can be relaxed. Unselfish, hard working officials and unselfish, almost partisan loyalty on the part of every member is the winning combination in club and society life under present conditions.

The fertile florist and the pliant press

It is one of the wonders of the age—the greediness with which the daily press devour any sort of a yarn concerning the method of development or the market value of a new flower. The number of florists who have scornfully "refused" offers of from six to forty thousand dollars for new carnations and otherwise "throw bouquets at themselves" is growing apace. It is certainly a rare tribute to the presumed integrity of the average florist that the daily press, with its scepticism as regards other things, is so ready to accept without question whatever a florist may hand out.

"Suspicion sleeps

At wisdom's gate and to simplicity

Resigns her charge, while goodness thinks no ill
Where no ill seems."

But when suspicion wakes, as she is very liable to, then look out for trouble.

The green carnation

There has been more or less discussion among floral patrons and outsiders generally over the coloring of cut flowers. Of course the green carnations on St.

Patrick's Day started the talk, but it has turned to other instances of coloring by similar methods. No man has yet either by experimenting with the natural flower, or by copying in oil, successfully imitated the work of the Great Creator, nor can he hope to do so. The Almighty has reserved for Himself that power. Green carnations or any other artificially colored flowers are hideous deceptions, and certainly deserve the criticism which has been so freely bestowed on them and their despoilers on and around St. Patrick's Day. It is a business which should be stopped and the florist trade owes it to itself to take the initiative. Man is given brain power to develop flowers to their highest and best but he fails miserably when he attempts to change by artificial means the delicate coloring allotted each beautiful blossom.

Some of the surprises at Boston

The influence of cultivation in rose development was well demonstrated at the Boston exhibition. A prediction that the cup for the best vase of roses in the hall would be won by a vase of Chatenay would have seemed wild, yet that was what happened and the judgment was not questioned, although the American Beauty at its very best was in competition. Another rose that surprised everybody was Gen. MacArthur. Those big velvety petals, flowers full double to the centre, superb leathery foliage and four-foot stems, together with the unsurpassed fragrance of the variety, were an object lesson that will not be forgotten. As to Richmond, it is no exaggeration to say that the majority of those present had never seen Richmond before. They had seen plenty of flowers from Richmond plants but these had given no idea of the possibilities with this queen of American productions. Rose growing for the cut flower trade has been given a healthy stimulus by these examples of what may be accomplished through intelligent cultural methods.

WHOLESOME CHESTNUTS.

Cuttings of alternanthera having flower on them will root easily enough, but they are almost useless when rooted, because it takes a long time for them to make up their minds whether to live or die; better for them to die. Don't be in a hurry taking cuttings from alternanthera recently rooted; better wait and get better cuttings, and do less injury to the plants.

Marguerite carnations are very useful if they are got early, but if not, they are not worth bothering with, because if the plants are small and late in being planted, it will be near fall before they begin to flower; so set them a-going. The several varieties of Begonia Vernon are just right for neat fancy bedding, but there is one especially, a double red variety, which is certainly stunning for effective decoration. I don't know the name of it, but I believe the stock is now owned by R. & J. Farquhar & Co.

Geraniums that have, when potted, been placed close together should now, if possible, be given a little more breathing space, otherwise they will grow up weak and spindly. Keep the buds and flowers cut off all not soon required, or to be offered in the near future for sale, and pinch the tops off any that appear to be lanky. Pansies in frames should have air admitted whenever possible, but for some time yet close up early in the day. Where they are growing closely together, thin them out, and either plant them in another frame or in boxes filled with good, rich soil and set in a cold frame. A good stock supply of coleus can yet be obtained from cuttings, but do not delay operations very much longer.

Get everything possible into frames. I mean all hardy stuff for early planting, such as perennials, so that when suitable weather shows up the stuff will be in condition for planting. Look over your cannas and get ready all you think will be required for an early start. Divide the tubers that are sound and start them in a gentle heat on a bench, covering them with leaf-mould or put them in flats, covering them lightly with the same material. Remove everything that you are positive is dead. The tubers place in heat the same as the others, and when they begin to grow you will then be able to divide them to better advantage. It is much too early yet to start clumps of the common cannas into growth.

THE AMERICAN CARNATION SOCIETY.

The president-elect (John H. Dunlop of Toronto, Ont.) has so enthused the inhabitants and officials of his city that every obstacle that might prove an inconvenience to the members and exhibitors who will attend the meeting next January in Toronto, Canada, has been removed and there will be less trouble in getting stock to this show than in the larger cities of the U. S.

Anything now that bears the stamp of this society goes through without any delay, and it is a safe prediction to say that when it comes to the week of the meeting stock will be rushed through from Suspension Bridge to the exhibition hall with a dispatch and care that will make the people on this side want all of our meetings held in Toronto.

A. M. HERR.

PHILADELPHIA SPRING SHOW.

The spring show of the Pennsylvania Horticultural Society had more fine specimen plants on exhibition than have been seen at any previous show at this season of the year. The prominent features were the azaleas. The best plants had apparently been timed to a day; every flower was perfect with a few more to open and not a flower dropped. One of the very best was "Alice," a magnificent specimen, over five feet in diameter. It is one of those parti-colored varieties, some branches having flowers light red, others pink and red, while yet others were pink and white. Taking it altogether this was the most effective flowering plant in the show. It was exhibited by Samuel Batchelor, gardener for Clement Newbold. Other azaleas from the same exhibitor were Rosa Mundi, a trifle less than 5 feet in diameter, red in color, and Francois de Vos, cherry red. There were other fine specimen azaleas on exhibition, notably those from the greenhouses of James W. Paul, Jr., the president of the society, James Hurley, gardener. Mr. Newbold's gardener also had two fine palms, *Caryota urens*. Begonia Feastii from the same exhibitor was much admired.

First premium was awarded to the same exhibitor for six geraniums; these were exceptionally well-grown and flowered to the day. There was some controversy about two of the varieties being too nearly alike, but there were evidences of distinctiveness even if they were slight, and all the plants in this collection were so uniform in contour that they commanded the admiration of casual observers and experts alike. *Cineraria stellata*—what a magnificent flowering plant this is when space can be given to develop it to its fullest capacity; and there were some exceptionally fine plants here on this occasion. A *Rhapis flabelliformis* twelve feet high and well-proportioned was another feature that came from the greenhouses of President Paul.

The hyacinths and tulips exhibited in 12-inch pans were never better. A beautiful variety of tulip—Pink Beauty—was exceptionally fine. Wm. Kleinheinz, gardener for P. A. B. Widener, as usual took many prizes.

Bougainvilleas were in evidence. Wm. Robertson had a fine plant of the *Sanderii* variety, and W. K. Harris with his variegated form of same is confident that it will prove a valuable addition to ornamental plants. The red-flowered form exhibited by Samuel Batchelor was freely commented upon as hardly bright enough.

Primula obconica was another of the prominent features and the collection having a white form and the several varying delicate shades was awarded first premium. This went to Mrs. S. T. Bodines, A. G. Williams, gardener. A large plant of *Begonia Herachefolia*, full of flowers and in a 10-inch pot, was much admired.

Time is too short to give all the good points of the show which will go down into history as one of the very best for high finish and general excellence.

EDWIN LONSDALE.

The Kentucky Society of Florists will hold its regular monthly meeting at Jacob Schulz's store, 644 Fourth avenue, Louisville, Tuesday, April 3 at 8 P. M.

FLORISTS' CLUB OF PHILADELPHIA.

Thursday the 22nd inst. was Ladies' Night—an annual and time-honored event in the annals of the Florists' Club of Philadelphia. It proved a most successful affair in every way and reflected credit on the house committee and officers of the club who had the matter in charge. The fascinating games of shuffleboard, pool, billiards, and bowling were indulged in by the wives and sweethearts of the members—giving the ladies a taste of the powerful influences that keep their masculine friends so often late in their homecoming. The intervals were enlivened by song and story and the refreshment end of the programme was ably looked after. A pleasing feature of the occasion was the number of new faces observable in the audience.

TOLEDO FLORISTS' CLUB.

The meeting last Wednesday was poorly attended, owing to the terrible snowstorm; most of the members stayed at home attending to firing. Emil Savoy was a visitor. The meeting was a short one. There were two nice exhibits, one from Krueger Bros., who showed a bunch each of *Enchantress* and Mrs. T. W. Lawson carnations and a vase of Meteor roses. W. E. Hall exhibited his carnation seedling, E. G. Gillett. The parents of this magnificent carnation are *Prosperity* and *Maceo*; the color is a fine scarlet, showing now and then the slightest streak of white. It is as good a scarlet carnation as is now in the market.

DETROIT FLORISTS' CLUB.

At the regular meeting, March 21st, an essay on steam heating was read by A. Simonds of Grand Rapids, which was found very interesting. Hugo Schroeter also read an essay on seasonal preparations for Easter which contained some useful information. The Detroit Florists' club then decided to hold a Flower Show on April 4th at the Michigan Cut Flower Exchange. As new varieties are to be featured many growers will no doubt contribute.

OBITUARY.

Gustave A. Fleck, of Oakland, Cal., one of the oldest florists in the city, ended his life on March 15 at his home. He was a native of Germany, 70 years old.

Charles Beck, who for thirty-five years has been florist and landscape gardener at the Soldiers' Home, Dayton, O., passed away on March 20 after an illness of many weeks. Mr. Beck was born on Jan. 2, 1827, at Schwarzenfels, Germany, and came to America in 1847. He has resided in Dayton since 1861. He was considered one of the finest landscape gardeners in this country. He was a member of the Society of American Florists and Ornamental Horticulturists for several years, but resigned in 1902. He leaves a wife, two daughters and a son, Otto Walter Beck, a teacher in the Pratt Institute, Brooklyn.

AMERICAN ROSE SOCIETY

Meeting and Exhibition at Boston an Unprecedented Success.

Spring Show of Massachusetts Horticultural Society a Scene of Splendor.

Largest Attendance on Record.

Officers Elected.

PRESIDENT—Robert Simpson, Clifton, N. J.; **VICE-PRESIDENT**—F. R. Pierson, Tarrytown, N. J.; **TREASURER**—Harry O. May, Summit, N. J.; **SECRETARY**—Benj. Hammond, Fishkill-on-Hudson, N. Y.

EXECUTIVE COMMITTEE—W. A. Manda, So. Orange, N. J. (1 year); J. J. Curran, Elmira, N. Y. (3 years); Peter Bisset, Washington, D. C. (3 years).

The combined exhibitions of the Massachusetts Horticultural Society and the American Rose Society made a flower show acknowledged by all visitors to be superior to any ever put up on this continent. The rose show in itself was never equalled at this season of the year in this or any other country, either in quality or extent. Its size was a surprise even to those who have worked indefatigably to this end, and the lecture hall, which it had been feared might prove too large, was overcrowded when the entries had all been staged. Much more room could have been used to great advantage, and could have been secured had the exhibitors given any advance notice of their intentions. Although urged to do so, many waited until they arrived with their exhibits before making any entry. If the rose society were to stay one more year at Boston they could probably use the entire Horticultural building advantageously.

The surprise of the rose show was the American Beauty, Chatenay, MacArthur and Richmond exhibits. If the latter should keep on developing its possibilities as it has during the past year, the American Beauty will have to face a very dangerous rival. There were eight entries in the class for fifty Beauties for the executive committee prizes, and four of fifty each for the MacMulkin cup, and the judges only made their decision on the former after they had called in assistance and added a New York and a Boston retail florist. There were six entries in the class for twenty-five American Beauties, and thus, with the addition of the smaller classes, it will be seen that there were nearly one thousand Beauties alone.

Among the competitors were Farenwald, Bartram, Burton, Heacock and Floral Exchange from Pennsylvania; Briarcliff from New York; Brant from



ROBERT SIMPSON.
President-elect American Rose Society.

New Jersey; Marshall from Rhode Island; Elliott and Waban Rose Conservatories from Massachusetts. As will be seen in the award list appended, the Pennsylvanians gathered in about everything in the Beauty prizes in the show; they constituted an exhibition in themselves. On Bride and Bridesmaids in the different classes there were no less than forty entries, every bloom a special. The competition in the silver cup and other special prize classes was much greater than in the regular cash classes. Of thirty-three specials, twenty-eight were competed for, there being six and seven entries in several cases.

For the first time in many years the retail florists were given an opportunity to show their handiwork in mantel and table decoration. Houghton & Clark won the cup in both instances. Their mantel decoration was of Wellesley roses, Farleyense and Pieroni ferns. Their table was adorned with Killarney roses in center-piece and corsages. Other mantels were done in Bridesmaids and smilax by The Rosary, Richmond and Crimson Rambler by MacMulkin, Richmond, Safrano and Asparagus Sprengeri by Hoffman, Liberty and Bridesmaid by Penn.

Among the new things in cut bloom were John Cook's Enchanter, shown by Robert Simpson; Queen Beatrice, shown by F. H. Kramer; Tom Field, shown by George Field; and Miss Kate Moulton, shown by the Minneapolis Floral Company. The latter was the only exhibit from west of Utica, N. Y. We hope this solitary evidence of enterprise on the part of our western friends may receive adequate reward, and have no doubt it will, as the charmer from far off Minnesota showed up well and demonstrated keeping qualities such as few roses are possessed of.

The pot roses shown for the \$100 cup were very fine. The winning group from Thomas Roland, Nahant, occupied the stage and added very much to the general appearance of the hall. The competing group from H. C. Steinhoff, West Hoboken, N. J., was also superb and, considering the long distance they came, the blooms were in remarkably fine condition. There being no second prizes in the special premium classes, the following named exhibitors in this department not winners, should be mentioned: Francis Skinner, Benj. Dorrance, John Marshall, Brant Bros., Elwood Brant, John H. Taylor, Floral Exchange, Robert Montgomery, J. N. May, C. H. Totty, Joseph Heacock, Briarcliff Greenhouses. These competing exhibits were all exceptionally fine. Following is the list of awards:

List of Awards for Roses.

Division A, Twenty-five Blooms:—(1) American Beauty—First, George Burton; second, Briar Cliff Greenhouse. (2) Queen of Edgely—First, The Floral Exchange, Edgely, Pa. (3) Bride—First, Waban Rose Conservatories; second, W. H. Elliott. (4) Bridesmaid—First, Waban Rose Conservatories; second, W. H. Elliott. (5) Mrs. Pierpont Morgan—First, Waban Rose Conservatories; second, R. T. McGorum. (6) Souv. du President Carnot—First, R. T. McGorum; second, John McFarland. (7) Golden Gate—First, R. Simpson; second, Floral Exchange. (8) Mme. Abel Chateau—First, R. Simpson; second, Floral Exchange. (9) Mrs. Oliver Ames—First, W. H. Elliott; second, Robert Montgomery. (10) Ivory—First, Floral Exchange. (11) Safrano—First, W. H. Elliott. (12) Liberty—First, W. H. Elliott; second,



ROSE QUEEN BEATRICE.
Exhibited by F. H. Kramer.

John H. Taylor (20) Wellesley First, Waban Rose Conservatories; second, W. H. Elliott. (21) Killarney First, W. H. Elliott. (22) Richmond First, W. H. Elliott. (23) Gen. MacArthur—First, Robert Miller; second, John N. May. (24) Uncle John First, R. Simpson (25) Enchanter R. Simpson.

Division B, Twelve Blooms: (29) Bride First, Montrose Greenhouse; second, Robert Montgomery. (30) Bridesmaid First, Montrose Greenhouse; second, Robert Montgomery. (32) Mrs. Pierpont Morgan Second, Robert McGorum.

Division C, Twelve Cut Blooms: (53) Twelve Blooms American Beauty First, John Marshall. (55) Twelve Blooms Bride First, John Marshall; second, D. C. G. Weld. (56) Twelve Blooms Bridesmaid First, D. C. G. Weld.

Division D, Twelve Cut Blooms: (59) Twelve Blooms Ulrich Brunner John McFarland. (80) Twelve Blooms Mrs. John Laing Second, John McFarland.

Division E, Twelve Cut Blooms: (117) Twelve Blooms Ulrich Brunner Second, D. F. Roy. (118) Twelve Blooms Mrs. John Laing Second, D. F. Roy. (119) Twelve Blooms Gabriel Luizet Second, D. F. Roy.

Division F, Special Prizes for Cut Blooms: (155) Fifty Blooms American Beauty, the Executive Committee's Prize, winning the Lord & Burnham Trophy—First, Geo. Burton; second, J. H. Bartram. (156) Fifty Blooms of Wellesley, winning

Galvin Cup—First, Waban Rose Conservatories. (157) Fifty Blooms of American Beauty, winning MacMulkin Cup—First, A. Farenwald. (158) Fifty Blooms of Liberty, winning Elliott Cup—A. Farenwald. (159) Fifty Blooms of Bridesmaid, winning J. Newman & Sons Cup—Waban Rose Conservatories. (160) Fifty Blooms of Richmond, winning 825 First, Waban Rose Conservatories. (161) Twenty-five Blooms of Richmond R. Simpson. (162) Twelve Blooms of Richmond W. G. Badgley. (163) Twenty-five Blooms of Wellesley Second, W. H. Elliott. (164) Twenty-five Blooms of Killarney, winning Doyle Cup—Waban Rose Conservatories. (165) Twenty-five Blooms of Bride, winning Zinn Cup—W. H. Elliott. (166) Fifty Blooms of Chateau, winning Kasting Cup—Exeter Rose Conservatories. (168) Twenty-five Blooms of Liberty, winning Penn Cup—A. Farenwald. (171) Twenty-five Blooms each, of Bride and Bridesmaid First, Geo. C. Harbeson. (172) Twelve Blooms Bridesmaid, winning R. & J. Farquhar & Co. Cup—W. C. Rust. (174) Sweepstakes, Best Vase of Roses in the Exhibition, winning Welch Bros. Cup—Exeter Rose Conservatories.

Division G: (176) General Display of Roses, winning Silver Cup—T. Roland. (177) Six Plants any One Variety—First, W. W. Edgar; second, Herman C. Steinhoff. (178) Specimen Plant First, W. W. Edgar; second, Herman C. Steinhoff. (179) Specimen Climber—First, M. H. Walsh;

second, Francis Skinner, Jr. (180) Crimson Rambler Herman C. Steinhoff.
 Division II, Special Prizes for Pot Plants:—(182) Specimen Plant, winning A. H. Hews Co. Cup—Col. Charles Pfaff. (184) Specimen Plants of Lady Gay and Wedding Bells—T. Roland. (187) Best Mantel and Mirror Decoration, winning A. F. Estabrook Cup Houghton & Clark. (188) Best Dinner Table Decoration of Roses, winning Houghton & Dutton Cup Houghton & Clark.

The exhibits of the Massachusetts Horticultural Society occupied the main hall and the small hall adjoining. It was a remarkable display of the expert gardener's art. The commercial growers were better represented than heretofore. R. & J. Farquhar & Co. placed an immense group of spring flowering material, superbly arranged; W. W. Rawson filled the centre of the big vestibule with a striking oval bed of tulips Ophir d'Or, bordered with a wide margin of dark leaved shamrock; Thomas Roland surprised every one with a sensational group of Easter flowering plants, novelties among which were splendid specimens of Canterbury Bells and Japan lilies; he also showed a group of *Mahernia odorata*, an old favorite so long neglected as to be practically a novelty now. Edward MacMulkin also had a showy group. F. R. Pierson Company had a fine display of the Tarrytown fern and carnation Winsor. H. H. Barrows & Son had a glorious group of *Nephrolepis Whitmanii*. Another novelty was *Adiantum Edgari*, shown by W. W. Edgar. The best description of it is to say that it looks well able to give *Crowianum* a hard struggle to maintain its pre-eminence. The carnation growers were well represented by about fifty large vases, in which all the prominent varieties of the present time were shown in perfection. Julius Roehrs Company showed a very interesting collection of novelties in decorative store and greenhouse plants, including many new and rare things, also orchids. Lager & Hurrell staged a great group of orchids, among them being a plant in flower of *Cattleya Schroederæ*. From John T. Gale and Malcolm Orr came sweet peas of highest quality, and James Anderson showed a fine vase of stock Beauty of Nice.

From the Bussey Institution and many private gardeners came a bewildering array of bulbous stock, lilies, genestas, rhododendrons, azaleas, viburnums, laburnums, trilliums, kalmias, andromedas, etc., and an elegant group of acacias, ericaceous material and other hardwooded plants. Among the sensational exhibits were M. H. Walsh's magnificent group of rambler roses—plants up to eight or ten feet high, and five to six feet through, loaded with bloom; the cyclamens from George F. Fabyan, Dr. C. G. Weld and E. J. Mitton's conservatories—plants such as can be seen nowhere in the world outside of Boston; the gorgeous amaryllises from George F. Fabyan; orchids from J. E. Rothwell and others. The cinerarias, primroses and polyanthus were also shown in great perfection and profusion. Awards were made as follows:

Awards by Massachusetts Horticultural Society.

Silver Gilt Medals.—H. H. Barrows; *Nephrolepis Whitmanii*. Silver Medals.—Mrs. R. B. T. Den-drobium superbum Delect. L. C. Coet, *Cattleya Thayeri* supra.

Ironze Medals.—Thomas Roland; Superior cultivation of *Mahernia odorata*.

First-class Certificates of Merit.—M. H. Wassa, Seedling Rambler, Delight; F. R. Pierson Co., Specimen Azalea, Carnation Winsor; Lager & Hurrell, *Cattleya Schroederæ*; Ant. C. Zvolanek, Seedling winter flowering Sweet Peas.

Honorable Mention.—Peter Fisher, Carnation Beacon; Mrs. J. Montgomery Sears, Seedling Amaryllis; Peter Fisher, Carnation Seedling No. 500; James Crawshaw, New Asparagus; Pierce Bros., Seedling Carnation, Gov. Guild; W. W. Edgar, *Adiantum Edgari*.

Indian azaleas, first, Edward MacMulkin; second, Mrs. John L. Gardner; third, E. W. Breed.

Palms, pair, first, William Whitman; second, George F. Fabyan; third, Mrs. J. L. Gardner. Ericas, first, Edward MacMulkin; second, Dr. C. G. Weld. Orchids, first, George F. Fabyan; second, J. E. Rothwell; third, Edmund W. Converse. Hard-wooded greenhouse plants, first, Dr. C. G. Weld; second, Mrs. J. L. Gardner. Acacia, first, Mrs. Frederick Ayer; second, Dr. C. G. Weld; third, Mrs. Frederick Ayer. Climbing rose, specimen plant, in bloom, first, second and third, M. H. Walsh. Collection of rambler and other roses, suitable for landscape and decorative purposes grown in pots, first, second and third, M. H. Walsh. Hardy primroses and polyanthus, 1st, William Whitman; 2d, ditto; 3d, Mrs. J. L. Gardner. Cyclamens, 10 plants, 1st, George F. Fabyan; 2d, E. J. Mitton; 3d, George F. Fabyan. Ten plants in not over seven-inch pots, 1st, George F. Fabyan; 2d, Dr. C. G. Weld; 3d, E. J. Mitton. Single plant, 1st, Dr. C. G. Weld; 2d, E. W. Converse. Cinerarias, six varieties, 1st, George F. Fabyan; 2d, E. J. Mitton; 3d, Mrs. J. L. Gardner. Specimen plant, 1st, Dr. C. G. Weld; 2d, Mrs. J. L. Gardner. Cineraria stellata, six plants, 1st, William Whitman; 2d, Mrs. J. L. Gardner. Specimen plant, 1st, William Whitman; 2d, Mrs. J. L. Gardner; 3d, William Whitman. Hyacinths, twelve, one in each pot, 1st, William Whitman; 2d, Mrs. J. L. Gardner; 3d, Bussey Institution. Six, 1st, William Whitman; 2d, William Whitman; 3d, Mrs. J. L. Gardner. Three pans, 10 bulbs of one variety in each, 1st, William Whitman; 2d, George F. Fabyan; 3d, Mrs. J. L. Gardner. Single pan, 1st, William Whitman; 2d, William Whitman; 3d, Mrs. J. L. Gardner; 4th, Mrs. J. L. Gardner. Tulips, six pans, nine bulbs of one variety in each, 1st, William Whitman; 2d, Mrs. J. L. Gardner; 3d, Bussey Institution. Three pans, 1st, Dr. C. G. Weld; 2d, William Whitman; 3d, William Whitman. Three pans, 12 bulbs of one variety in each, 1st, William Whitman; 2d, William Whitman; 3d, Bussey Institution. Polyanthus narcissus, four pots, five bulbs in each, 1st, Mrs. J. L. Gardner. Jonquils, six pots, 1st, William Whitman; 2d, Mrs. J. L. Gardner; 3d, Bussey Institution. Narcissuses, six pots, single or double, 1st, William Whitman; 2d, Bussey Institution; 3d, Mrs. J. L. Gardner. Three pots, 1st, William Whitman; second, William Whitman; 3d, Mrs. J. L. Gardner. Lily of the valley, six pots, 1st, William Whitman; 2d, Lowthorpe school of horticulture. Roman hyacinths, six pans, 1st, William Whitman; second, Bussey Institution. Amaryllises, six pots, 1st, George F. Fabyan. Collection of herbaceous spiraeas, first, William Whitman. Display of Easter plants, 1st, Thomas Roland. General display of spring bulbous plants, 1st, William Whitman; 2d, Bussey Institution. Hybrid perpetual roses, 12 blooms, 1st, Col. Charles Pfaff; 2d, Mrs. C. C. Converse and Mrs. Lester Leland. Twelve blooms of Orich Brunner, 2d prize to J. McFarland. Twelve American Beauty, 2d prize to W. H. Elliott. Twenty-five Bride, 1st, William H. Elliott. Bridesmaid, 1st, William H. Elliott. Liberty, 1st, William H. Elliott. Any other variety, 1st, William H. Elliott. Killarney, 2d, R. T. McGorum. Souvenir du President Carnot, 3d, J. McFarland. Souvenir du President Carnot Carnations, 25 crimson, 1st, M. A. Patten; 2d, S. J. Goddard; 3d, Backer & Co. Dark pink, 1st, Thomas F. Mathews; 2d, Elijah A. Wood; 3d, H. A. Stevens company. Light pink, 1st, William Nicholson; 2d, George E. Buxton; 3d, M. A. Patten. Scarlet, 1st, H. A. Stevens company; 2d, S. J. Goddard; 3d, William Nicholson. Yellow variegated, 1st, Backer & Co.; 2d, Backer & Co. White variegated, 1st, M. A. Patten; 2d, F. R. Pierson company; 3d, William Nicholson. Pansies, 48 blooms, 1st, Mrs. E. M. Gill. Violets, Lady Hume Campbell, first, Malcolm Orr; 2d, E. Brigham; 3d, H. F. Calder. Any other double variety, 1st, H. F. Woods; Swanley White; 2d, H. F. Woods. Marie Louise; third, Norris F. Comley, Swanley White. Princess of Wales, 1st, William Sim; 2d, Norris F. Comley; 3d, E. Brigham. Any other single variety, 1st, W.

William Sim, Gov. Herrick; 2d, Mrs. Fred Ayer, California; 3d, H. F. Woods, California. Orchids, J. E. Rothwell, the Appleton silver gilt medal.

In a space generously set apart for trade exhibitors were interesting displays of their specialties by Robinson & Co., florists' supplies and greens; Holly-Castle Co., electric circulator; Kroeschell Bros., boilers, wrenches, etc.; E. H. & E. J. Gove, adjustable carnation support; D. Iliffe, greenhouse piping and fittings.

On Saturday evening and on Sunday afternoon and evening the Brookline Band of 25 pieces gave a musical concert in the main hall. On Saturday forenoon the children from the Little Wanderers' Home were admitted and escorted through the show. Grouped in the centre of the hall, they sang a couple of songs listened to with delight, mingled with not a few tears by a vast throng of people. The incident was commented upon as one of the most impressive connected with the exhibition. The roses left at the close were in remarkably good condition, and were sent by the American Rose Society to the Children's Hospital.

ANNUAL MEETING.

The annual meeting of the American Rose Society was called to order in the committee room, Horticultural Hall, Boston, on Friday, March 23, at 8 p. m., by President Alexander Montgomery, with about sixty members in attendance.

President's Address.

The president read his address as follows:

Ladies and gentlemen and members of the American Rose Society, for the second time I have the honor to report to you on the progress made by this Society. During the year the commendable encouragement which we have received from all over the country is evidence that the rose men are gradually becoming interested in our work. This interest is in a large measure due to the excellent work of our secretary, and also to the introduction of several new roses that give good promise of being valuable additions to our list of winter flowers. This branch of our business is worthy of all the encouragement our members can give it, as the future success of our Society depends to a great extent upon the interest created by their introduction. While we cannot expect to have a Richmond every year, yet there is evidence of other valuable varieties in sight that will help to whet the curiosity and consequently the interest of our rose growers. We cannot hope to compete with the carnation men in this respect, as they are fortunate in having a flower that responds readily to their efforts toward improvement, while with the rose, even the most expert hybridizer finds it slow work to get anything that is an improvement. However, when one is offered for sale, both large and small growers should buy it and test it for themselves, if you don't succeed at first don't be in too great a hurry to condemn, but remember the Liberty and how few had good success with it at first, yet it became one of our most valuable varieties.

The rose of the future will un-

doubtedly be raised from a mixture of the tea and the hybrid blood, for in no other way can we expect to get the bright colors that are so much wanted. We may not be able to grow the future roses in the haphazard way that the true teas have been grown in the past, but by careful study of their requirements our progressive rose men will have little difficulty in adapting themselves to the best methods of growing them. From what I have been able to learn from some of those who are devoting their best energies to the raising of new roses, the first great principle they have in mind is that a rose, to be of value, must have a strong constitution and be a vigorous grower, otherwise it will be of little use to the American rose grower. A fine individual flower without these qualities cannot satisfy. Many plants found in every batch of seedlings have ideal flowers but are so wanting in vigor of growth that they have to be discarded. It takes considerable courage to do this, yet the honesty of purpose of our seedling rose raisers can be depended upon to do it, as only by these heroic methods can the business prosper and the best interests of our Society be conserved.

I am not the least pessimistic as regards the future of the rose business, for the rose will hold her proud place in the commercial world as well as in the world beautiful. The growth of the rose business in the past twenty-five years has been phenomenal; its growth in the future, I doubt not, will be equally great; therefore I say to the young men starting in, put forth your whole energy to acquire the best methods of cultivating the Queen of flowers that you may produce her in the highest state of perfection. Don't be afraid to exhibit at our shows and in this way induce a healthy rivalry; don't be afraid of being beaten, you cannot always win. Try again and if you are made of the right material for an exhibitor you will be surprised to find how one or two failures will stimulate to increased effort to win the coveted blue ribbon of our Society.

It should be the duty of the American Rose Society to encourage the amateur rose grower in every possible way by distributing proper literature, giving directions how to plant, and also what to plant, yet our greatest effort should be put forth to enroll the commercial cut flower and plant men. We should not rest until we have every rose grower in the country on our membership list. The amateurs' interests are only local, they will not follow our exhibitions from place to place, consequently, when the exhibition goes away, as it must if it is to be a permanent success, they lose interest and drop off our list. Let us make our Society of interest to the professional by making it profitable and distance will not deter him from being there. We may just as well look this question squarely in the face if we aim to be a permanent Society, for sentiment doesn't count in the commercial world. The carnation man attends his convention that he may exhibit or see the new varieties, or so he can sell or buy stock, not for the love of the flower altogether does he go. The rose man is no different from his brother the carnation man, there must be some profitable attraction to bring him out; therefore it is the duty of every rose



BENJAMIN HAMMOND.
Secretary-elect American Rose Society.

grower to make an exhibit of his wares at our exhibition—if he has something new so much the better—but the small grower, as well as the large, ought to do his part.

Let our Society go to all parts of the country. They say a rolling stone gathers no moss, but I believe a rolling National Rose Society would gather members and corresponding strength.

In conclusion I wish to thank the members of the American Rose Society for the honor done me by twice electing me to be your president and while I have fallen far short of what I wanted to accomplish for the Society, yet I have done the best I could under the circumstances. Although I now step out of office, the Society will still have my hearty cooperation and best wishes for its success.

Secretary's Report.

The following report was read by Secretary Wm. J. Stewart:

With another year of experience to our credit, we come again as guests of our good friends of the Massachusetts Horticultural Society, to set up one more milestone in the history of the rose in America and the organization devoted to its advancement. How have we fared during the year since we

last met in this room? The best answer I can give is to ask you to look at the splendid exhibition in the adjoining hall. Your secretary can give you facts and figures of the year's doings but you who are privileged to see this exhibition will care more for the kind of evidence here given, that the rose growers are wide awake, that the American Rose Society is backed by workers both willing and capable and has now gotten safely beyond the point where any doubt could exist as to its permanency and usefulness.

For the first time since the organization of this society an annual report and bulletin has been published. In it are recorded the proceedings at the meeting in Boston one year ago and the doings of the executive committee in the meantime including the delightful visit to the rose garden at Hartford, Conn., last June. Several well-prepared and instructive papers generously written by members for this purpose are included, together with a list of the members up to date. A few advertisements were inserted which materially reduced the cost of issuing the report. A copy was duly mailed to all members and further reference to it now is unnecessary except that your secretary has to acknowledge the unfortunate omission of a number

names that should have appeared in the published list of members, his own name being one of the unfortunate ones. The others were Miss C. Cruger, J. D. Eisele, A. Gude, W. F. Gude and Mrs. G. M. Reynolds.

The number of members who have paid annual dues during the fiscal year ending June 30, 1905, or later, is 112; the number of life members 42; making the total membership March 20, 1906, 154. Of this number 22 are new members added since March 21, 1905. Resignations received since that date have been 14.

As I have said the problem of the existence and prosperity of the American Rose Society seems now to have been solved. Under its standard are gathered not only the commercial cut flower growers with their marvellous enterprise and giant influence but specialists in roses for the garden, the park and the dwelling house. The hybridist and fancier, no matter what direction his enthusiasm may take, is coming to be a believer in and a supporter of the rose society. Your secretary is of the opinion that our best success lies in holding the affairs of the organization under professional management for the present at least, it being clearly the duty of the practical rosarian to first establish the organization on a sound foundation and then, by such educational means as are possible, to widen the circle of the Society's scope and popularity. No better beginning can be made than the assembling of an exhibition, alike creditable in extent and quality, such as we have in evidence on this occasion. Under existing circumstances our strongest appeal to the people lies in the exhibition feature. Other work will follow in course. Hybridization, cultural experimenting and investigation must be encouraged and results carefully tabulated and given widespread publicity. All this means work unremitting, methodical and self-sacrificing, but if it is undertaken in the right spirit we shall have something to show for it all a year or two hence.

It is a knowledge of this urgent necessity which prompts me to ask that you now place the office of secretary in the hands of some one who can give it much more time than I am able to devote to it. I have realized all along, since assuming the duties of secretary, that the time and effort I have been able to spend in the work have been most inadequate to the pressing needs of the society. Some one should be secured who can keep up a vigorous campaign all through the year and build up the membership so that the annual dues may be sufficient to pay running expenses. Our field is a wide one and its possibilities far from being disclosed as yet.

Treasurer's Report.

Harry O. May, treasurer, presented his report, showing:

A cash balance of \$282.20 in addition to the permanent fund. This was reduced from the amount reported one year ago by several payments on account of previous years, but at the end of the fiscal year, June 30, it is hoped to have the deficiency fully made up by collection of life dues.

The treasurer supplemented his report with an urgent appeal for more

active financial support for the society, calling attention to the small amount of funds on hand. He was followed by John H. Taylor in advocacy of a permanent fund to be raised by subscriptions from those who are financially interested in the rose, Mr. Taylor offering to start the list with a substantial sum. This brought up an animated debate, participated in by Messrs. Robert Simpson, Farenwald, Dorrance, Reed, Elliott, Barry, Wheeler and others, in which much oratorical ability was displayed. Some took the ground that the amateur should be followed up and his active support secured, others that the professional people who are making money out of the rose should take hold first. A permanent fund large enough to yield a substantial income was looked upon by some speakers as the most desirable feature, while others believed that a large annual membership would be preferable. All agreed that the effect of the magnificent exhibition given by the society on this occasion would do



P. J. LYNCH.

much to give the society the needed enthusiasm.

P. J. Lynch of West Grove, Pa., then read a paper on the mail order trade.

The Mail Order Trade.

By P. J. Lynch.

In considering the scope to which I should confine the subject I have taken it for granted that to keep within the propaganda of this Society I must speak with special reference to the rose as a mail order commodity, yet the subject, The Mail Order Trade (in plants), has been touched upon so little by any of our National Societies, I shall therefore treat it somewhat broadly.

We have no governmental statistics to give an idea of the magnitude of the present mail order trade in plants. I doubt if very many of us realize the great work being done in this branch of our industry, a work whose power to advance the material growth and welfare of floriculture has been and is perhaps the greatest factor in our present unparalleled prosperity. Your mail order man is the pioneer

and pathfinder of the craft that has carried to the remote parts of the country the gospel of loving flowers, especially roses, and how to get and grow them. He has been, in a measure, the educator of the masses, many of whom are not in close touch with the large centers of population where the rose as grown for cut flowers can make its own appeal. He has been a factor in beautifying the waste places of our land, and it is my thought that the great work in which we are engaged has but commenced. Each year this great Government of ours continues to improve the efficiency of the mail service, so that to-day there is not a post office in any part of the Union where rose plants cannot be delivered with entire safety.

When the time shall come that corporate greed will not stand in the way of the needs of the people we shall have a parcels post system that will mean more to the business interests of the country than any contemplated legislation that I know of at this time. No measure that we can endorse will so advance the mutual interests of both buyer and seller as the enactment of a parcels post system similar to that in vogue in Great Britain, and no measure we can oppose, if I am not digressing from the subject, is more detrimental to the interests of the mail order trade than this absurd free distribution of seeds by the United States Government.

The mail order man is not a youngster. He has been around quite a long while. In 1869 the firm with which I am connected published an advertisement in the New York Tribune offering to send to any post office in the United States fresh, live, growing plants, on their own roots, and guaranteed the safe arrival. This proposition evidently was taken as a good joke, for we got no orders from it. Since those days marvelous advances have been made. Throughout the land there are to my direct knowledge one hundred and five mail order establishments, comprising millions of feet of glass, devoted exclusively to sending plants—roses principally—by mail. For catalogues and advertising alone I estimate that there is spent annually one and one-half million dollars. Some of these catalogues are gems of printers' art, and as a rule they are sent free to customers and to all others who ask for them. Through liberal advertising in the National weekly and monthly publications the public is kept advised that your mail order man is ready with the goods. It has been said, but I believe facetiously, that our descriptions of the wares we have to offer are occasionally too seductive, but I am sure, nevertheless, that the sincerity of purpose cannot be questioned. To be successful we must be enthusiasts, and in figuring the expense of printing these catalogues and advertising them appropriately your mail order man must have his nerve with him, because the proposition calls for sums of money in this department of publicity that is almost akin to the salary of the president of a modern Life Insurance Company. First of all, having grown his stock, the next move is to determine how much will be safe to invest in selling it. I am told that the gentlemen who construct the modern greenhouses of to-day are diligent in the prosecution

of their business—that to intimate that one intends to build means a busy time with our genial solicitor but if you have never been in contact with the gentleman who solicits for our large printing houses there is in store for you an experience that will add much to the zest of living. Having, we shall assume, survived his strenuous preliminary of placing the printing contract, the work of preparing copy for the printer means weeks, and in many cases months of careful, painstaking labor. The material for each department is collated from time to time throughout the year, the space it is to occupy is determined upon, then the material is carefully edited and made to fit into the allotted space, all of which requires an outlay of energy that would be almost impossible in the short space of time given to the work, unless these details were not carefully systematized.

At all times it must be kept in mind that the matter of postage upon big editions is a very serious item, and where the weight exceeds even by the smallest fraction of an ounce, one cent is thereby added, the rate being one cent for every two ounces or fractional part thereof. Having finished the catalogue, they are mailed to the most distant States at the most seasonable times, that the suggestion produced by the arrival of the catalogue will not be lost through unfavorable weather conditions. In the Rose trade the period of activity is confined from the 15th of January to the 1st of June. Orders must be handled with great skill and dispatch, and it is not uncommon in our large establishments during the busy days to fill an order a minute. It will be seen that the average mail order man has no extended periods of relaxation, for having placed his advertising campaign in operation he is called upon almost immediately to see to it that the promises and conditions he has set forth in his literature are made good, therefore, as a rule, he assumes personal supervision of the order department. He must of necessity know the business thoroughly, and must ever be upon the alert to secure the very latest and most meritorious varieties, and it is here that his acquaintance with geographical conditions must serve him in good stead, for a Rose that succeeds admirably in New Orleans will not bring satisfaction to the planter in Boston, and as all parts of the country must be served, the mail order man is keenly alert to test the merits of every new Rose introduced. He must ever keep in mind that to advance his business he must first satisfy the public.

The mail order trade has developed wonderfully within the last ten years, and I am firmly convinced that it is but in its infancy. The study of human nature enters largely into its success or failure. It must be realized that to sell goods to let us say a quarter of a million different individuals through the medium of printers' ink, requires on the part of the mail order man first of all, honesty of purpose and forceful and attractive descriptions, such as will beget the confidence of the average buyer.

This business is largely cash, which speaks volumes for the confidence in which this class of rose growers is held, when we realize that the flower



GROUP OF RAMBLER ROSES.

Exhibited by M. H. Walsh, Wood's Hole, Mass.

buyers of the country intrust to their keeping annually certainly not less than five million of dollars, and this before a dollar's worth of goods is delivered.

The time is here when closer affiliation between the mail order trade and those engaged in forcing Roses for the market will redound to the advantage and welfare of this Society. Right here would like to say that our co-operation in bringing before the public new American Roses may be counted upon, and I would encourage our growers to greater efforts in this department of work. The catalogue man always wants new and meritorious varieties. Heretofore he has depended very largely upon Europe for new Roses, and in the majority of instances these new varieties from abroad have not adapted themselves to our climate. The demand is here, and if by concentrated encouragement given new candidates for favor we increase the list of really meritorious roses, we are advancing, if I am not mistaken, one of the cardinal principles of this organization.

It is to be deplored that many of us assume a harsh attitude toward many of our new American roses. It must be borne in mind that there is a vast difference to be expected where the grower of a new rose has but a limited quantity of plants to work from, than the grower who has thousands of plants from which he may select a dozen exhibition blooms. I might add, also, that there is an almost unlimited field for free blooming roses that will withstand the rigors of our northern winters, so, while we are ever ready to welcome more Golden Gates, Richmonds, Queen Beatrixes, Tom Fields, and Miss Kate Moultons, let me urge you to keep in mind the needs of the mail order trade for hardy, rugged, free blooming roses, adapted to the coldest parts of the country. In this class there has been few additions within recent years.

There is a great field open for the hybridization of roses based for their constitution upon such classes as Hybrid Perpetuals and Rugosas, the Wichuraiana Seedlings, which are such a notable feature of the exhibition, and if our American hybridizers will work along these lines, the results will best suit the peculiarities of our varying climate, and I am confident that it will be but a comparatively short time until we will take our place as leaders in the production of new and useful roses.

The next on the program was a paper on rose growing for cut flowers by J. J. Curran of Elmira, N. Y. (See next week's HORTICULTURE.)

A paper by A. Farenwald of Roslyn, Pa., was next in order.

The Deterioration of Forcing Roses—Its Causes and Effect.

By A. Farenwald.

"Our Failures," I might justly call this introduction to this subject. Little do we hear of these failures in our trade papers. Why? Because very few care to publicly ventilate their failures. Pride, no doubt, often prevents growers from proclaiming these, whereby others might gain valuable information. One of the main objects of the Rose Society is to seek and distribute this information concerning roses.

In handling this topic I shall merely confine myself to stating facts which all of you, I am sure, have more or less come in contact with, leaving it for the discussion to find the cause and remedy, if it is possible.

In the first place, are our species of forcing roses deteriorating? If they are, why? Can anyone prove by their records that they are still producing as many flowers per plant as they did in the early stages of their introduction, as in Brides, or Maids, Beauties, or any other older forcing variety? If they are not, what seems to be the reason?

In years gone by it was a common thing to see Brides and Maids growing from young plants on own roots in one season to a height of from four to five feet, giving from thirty to forty, or even more, flowers on good, stiff stems per plant. But, how often do we see it now?

Again, why have so many growers been forced to introduce the system of grafting in growing Brides, Maids, and nearly every other forcing rose, with the exception of Beauties, where in former years plants on own roots did as well and better? Diseases were then as they are now, but were conditions as favorable to them then as now? Should conditions be more favorable now, why should such be the case? Are we less careful in the methods of propagation, or too much addicted to the use of highly concentrated fertilizers? Whatever the cause or causes may be, the fact remains, that places which were known for their excellence in growing Brides or Maids had to cease growing them grafted on own roots.

With American Beauty, our strongest growing forcing rose, the same state of affairs holds good. Here is an illustration, recently told me by a grower of Beauties who had remarkable success with them. In the first year they brought him \$16,000; year after year, however, they gradually brought less, until eight years later they only brought \$3500, with the same amount of plants as at first. Of course, he had to give up growing them. Can anyone throw light on this and similar cases happening all over the country?

In concluding, I hope that the members will take a lively interest in discussing these important questions, and they will also appeal to all practical rose growers over the whole country, who, if they should read them, and think they have any solutions for some of these vital questions, will take opportunity to state them in their best beloved trade paper. Even though it be but a few lines, I am sure they would be greatly appreciated by all concerned.

Dudley M. Pray of Boston then read a paper on soluble fertilizers, which evoked much discussion.

Mr. Pray was plied with questions on this most important subject and the discussion was only brought to a close by the arrival of 11 o'clock and a motion to adjourn until 2 p. m. Saturday.

A paper on "The Retailer's Part in the Introduction of New Roses" was on the program, but the writer, George Asmus of Chicago, was prevented from attending the meeting by sickness in his family. Owing to the lateness of the hour it was voted that the paper be read by title only and printed.

Saturday's Session.

The meeting was called to order at 2.30 p. m. Election of officers was the first business. President Montgomery and Secretary Wm. J. Stewart declined renomination.

Messrs. Robt. Simpson, P. J. Lynch and H. A. Siebrecht were nominated for president. On balloting, Mr. Simpson was elected. F. R. Pierson for vice-president, Harry O. May for treasurer, and Benj. Hammond for secretary were each elected by a unanimous vote. A. A.

Manda was elected for one year to fill the unexpired executive committee term of M. H. Walsh, resigned. Peter Bisset and J. J. Curran were elected each for the three-year term on the executive committee to succeed H. A. Siebrecht and Peter Crowe.

The question of the location of the next meeting was then discussed at length. Rochester, New York, Kansas City and Chicago were mentioned, sentiment favoring the latter, and a motion to this effect, but referring the final selection to the executive committee, was carried.

Votes of thanks were extended to the Massachusetts Horticultural Society and the Gardeners' and Florists' Club of Boston for their courtesy and hospitality, to the A. T. Stearns Lumber Company for loan of mantels, to the donors of the special premiums, to the gentlemen who had prepared papers and to the press. The meeting then adjourned.

The Banquet.

"The rose, the flower of love,
Mingle with our quaffing;
The rose, the lovely leaved,
Round our brows be weaved,
Genially laughing."

The banquet hall of the Brunswick was indeed a scene of brilliant beauty as the company of one hundred and seventy-five ladies and gentlemen, marching to the music of an orchestra, filed in and took their places at the flower decked tables after a formal reception by President and Mrs. Alexander Montgomery in the Venetian parlor. Tables, mirrors and chandeliers were resplendent with rich plants, baskets of orchids and vases of roses, carnations and other cut bloom, all contributed by the generous growers associated with the Gardeners' and Florists' club of Boston. Each lady wore a big bunch of violets, the gift of Wm. Sim. The banquet itself was simply faultless, a monumental credit to the entertainment committee and to the hotel. When the last course had been disposed of President James Wheeler of the Gardeners' and Florists' Club of Boston made a neat little speech of welcome, congratulating the American Rose Society on its splendid exhibition, and then called on Prof. Louis C. Elson as toastmaster. The toastmaster's introductory remarks were unique. He said:

"It is the custom among civilized nations, when several are gathered together to eat and drink, to select a few victims who shall be offered upon the altar of speech-making. For these victims the soup hath no charms, and the ice cream passes unheeded by; they are thinking of their speech. The savages had a much simpler plan; after eating they went to sleep. On this occasion, however, we will not let any of you go to sleep. On the contrary, we shall keep you very wide awake by speeches and songs."

After acknowledging that the flowers of rhetoric were the principal flowers with which he had any great experience and drawing an analogy between the Conservatory of Music, where he officiated, and a "hothouse" he continued:

"But I have found some of my most delightful relaxation in company with florists and growers. A more loyal and true-hearted and generous set of men does not exist. And when they found it proper to end the greatest

rose exhibition ever given in America with a banquet and offered me the position of toast-master I said to myself, 'I will not quail on toast.'"

He then called upon Alexander Montgomery, the "man behind the gun," the "man under the glass," president of the American Rose Society.

President Montgomery disowned any ambition as an after-dinner orator. He paid a graceful compliment to the youth and beauty and manliness around the tables, and in the name of the American Rose Society expressed thanks for the hospitality extended and the honor conferred upon the rose, the undisputed queen of flowers.

Robert Simpson, president-elect, next spoke, telling of his disinclination to talk—a characteristic that possibly was responsible for his selection as president, as workers and not talkers are wanted for office. He characterized the exhibition in Horticultural Hall as the best, in all respects, ever gotten together in this country.

The next toast, "The Massachusetts Horticultural Society," was responded to by the secretary of that society, W. P. Rich. Mr. Rich extended the greetings of the old society to the representatives of the outlying districts of New York, Philadelphia, Rochester, etc. He declared that although now 77 years of age, in active usefulness and proud of the achievements of the past, yet the Horticultural Society has its face turned towards the rising sun and is prepared to renew its youth. Having plowed and furrowed the field and sowed the seed, it was now glad to welcome and to co-operate with the younger societies, of which the Rose Society is one. He thanked the visiting society for the magnificent exhibition which had proved such a delight to the Boston people and promised that no matter how often the organization might visit Boston it would find the doors of Horticultural Hall always open.

Miss Florence M. Pettigrew, daughter of J. A. Pettigrew, then sang two songs beautifully, her singing of "Coming Through the Rye" creating great enthusiasm.

F. R. Pierson, as one of the officers-elect of the Rose Society, being the next speaker, said that the next administration would find difficulty in maintaining the Boston standard. He especially complimented the local people on their free admission of the school children to the exhibition. He asserted that the children are a bigger factor in popular floral education than the daily newspapers.

W. C. Barry of Rochester, N. Y., was next introduced, as president of the Western New York State Horticultural Society. Mr. Barry spoke in hopeful words of the future of the American Rose Society. Flower culture he declared to be the most honorable and elevating work on the face of the earth. He hoped the time would soon come when the advantages of these splendid exhibitions of the rose growers' art should be more apparent to the whole people.

After a couple of bass songs by Mons. Plancon, Peter Fisher was called upon as a representative of the sister organization, the American Carnation Society. Mr. Fisher told of his delight at the unprecedented exhibi-

tion of the Rose Society and said that the success of one branch of the floral family is an inspiration to the others. The rose, he added, would always be Queen of Flowers.

Col. W. W. Castle was the next speaker. The toastmaster introduced him as an Ohio man who, with the Ohio man's well-known capacity for filling any position, would respond for Boston. The colonel was in his breeziest vein and was both witty and eloquent as he contrasted the imaginary hide-bound, puritanical Boston with the genuine article, as evidenced on this occasion. Boston he characterized as the hub of art, literature, and everything that goes to make men better, whose lachstring is always out and whose people are never so happy as when entertaining company.

Fred Sander of London, who was next on the toastmaster's list, expressed his delight at having been so fortunate as to arrive in this country at a time when he was privileged to see such an exhibition—one that, he confessed, if it could be transported to London, would create a bigger sensation than any floral exhibition ever seen there. The remarkable specimens of American Beauty and Richmond were among the finest horticultural exhibits he had ever seen. He further complimented the gardeners for their orchid displays, the *Miltonia vexillaria*s being better grown than any he had seen elsewhere.

P. J. Lynch of West Grove, Pa., spoke briefly for the mail order trade, its magnitude and importance in the dissemination of the horticultural sentiment. George C. Watson of Philadelphia, followed for the seed trade. Mr. Watson applauded the object lesson given to other societies by the invitation to the children to visit this Boston show. Frank B. Cannell sang a song, and then came a whirlwind speech from Benj. Dorrance, full of wit and sentiment. He paid his respects to the rose growers who are growers for market, for prizes, for no prizes, and for surprises, and to the ladies, who are essential to the prosperity of the flower trade. He declared work and gentility to be a great combination, and asserted that "if we do throw bouquets at each other, we do it with a good heart and a full stomach."

A. Farenwald, of Roslyn, Pa., came next and, with a sidelong glance at the row of ladies on the next table, respectfully submitted that Boston was raising very brainy American Beauties. The patronage of ladies at the exhibition had been a surprise to him. A few appreciative words from George Burton, of Chestnut Hill, closed the testimony of the Pennsylvanians who had made such a successful onslaught on the prizes, and then came votes of thanks to toastmaster and committees, and a verse of "Auld Lang Syne" brought to a close this long-to-be-remembered occasion.

During the speaking, the hotel guests, who thronged the adjoining vestibules, sent in the following communication:

"The Hotel Brunswick guests, appreciating your roses very much, wish to offer this appropriate toast:

Here's to a world of Roses,
Each one filled with dew,
Each dewdrop filled with happiness
For every one of you."



um height, 5-10 flowers per plant, 10c. per bud. **Lilium Multiflorum**—have two houses full, had unusual good luck with them; only good plants are shipped. These lilies are raised from the best bulbs that money could buy; 10c. per bud; from 4-10 buds per plant, plants under 4 buds, 12c. per bud. **Begonia Vernon**, 5 in., pots, fine showy stuff, red or pink, \$2.00 per doz. **Hyacinths**, all shades, raised from best bulbs of my own importation \$12.00 per 100. **Tournefort Tulips**, three bulbs in 4-inch pot, the best selling double tulips in the market, sell at sight, \$1.50, per dozen pots. **Von Sion Daffodils**, double nosed bulbs, three bulbs in one 6-inch pot \$2.00, 2.50, 3.00 per dozen pots. **Araucaria Excelsa**, 7-inch pots, 30-40 inches high, 5, 6, 7, tiers, \$1.25, 1.50, 1.75, 2.00 each. **Crimson Ramblers**, large plants, only 7-8-inch pots, \$1.50, 2.00 each.

Cash with order please. Mention if pots are wanted. All goods must travel at purchaser's risk.

GODFREY ASCHMANN, 1012 Ontario Street, Philadelphia, Pa.

The decorations were under the direction of Edward Hatch, and well demonstrated that gentleman's exquisite taste.

Some of the Toastmaster's Interlocutory Remarks.

"Whenever I go to Philadelphia I'm sure to meet George Watson somewhere. When George and I meet it is like mixing the blue and white papers of a seidlitz powder."

"There is a big town by the Delaware. There's many a jolly good fellow there. But we had our surprises. They grabbed all the prizes, And they're taking them home, we are all aware."

"New York is a city southwest of here. The inhabitants are white, and are said to be very sociable. Twenty-eighth street is full of them."

ROSE POEM.

Old Shakespeare once wrote of a Rose,
And curiously asked "What's in a name?"
Yet we all prize the names that are borne
By these fragrant contestants for fame.

Some names had their rise in fair France,
Though they now in our catalogues glow,
As Madame Abel Chateauay,
And President Carnot may show.

And politics too, and finance,
Off use floral names as their organ.
You'll find here the fair Mrs. Ames,
And the spouse of the rich Pierpont Morgan.

A bride and a bridesmaid are here,
Who sit in the loftiest state,
The fame of their beauty has sped
From Wellesley to far Golden Gate.

There's a rose which the Irishmen prize,
They may praise it in brogue or in blarney,
For there's never a daintier flower
Than that which we label Killarney.

And Edgely's sweet monarch is here,
With Ivory sceptre she's seen,
But Liberty still lifts its head,
In spite of the rule of this queen.

EASTER PLANTS

Azalea Indica, Mme. Van der Crayssen, the best double pink azalea under cultivation: the People's choice, a special import, just right for Easter, in bloom and bud; full of buds, as round as an apple, something fine to look at, have only large plants; price, \$1.25, \$1.50, \$1.75, \$2.00 each; other varieties, assorted colors, 75c., \$1.00, \$1.25, \$1.50 each.

Spiraea Gladstone—I have a house full; the fine new variety, full of buds: it is a sight to look at; 6 and 7 in. pots, 50c. and 75c. each. Extra specimens, \$1.00 each. **Spiraea Japonica**, 6 in. pots, large plants, 35c., 40c., 50c. each. **Hydrangea Otaksa**, pink; have a house full, 6 in., 7 in., 8 in. pots, all well set with flowers, 40c., 50c., 75c., \$1.00, \$1.25, \$1.50 each. White 75c., 1.00 each. **Cinnearia hybrida**, 6 in. pots, just right for Easter, large heads, price \$2.00, 2.50, 3.00, 4.00 per dozen. **Lilium Harisii**, full of buds, medi.

An Eucharist is weaving a spell
On the heart of MacArthur the brave,
And Uncle John beams on the pair,
While his petals benignantly wave.

There's one rose has held constant sway.
A rival? she scarcely need fear it!
But Richmond once captured a throne,
And again he is coming quite near it.

But sing of them all as we may,
We still must pay homage and duty,
To the one blushing queen of them all,
And that's the American Beauty.

And ne'er in this country before
Has there been such a great exhibition.
In spite of the snow and the ice,
The flowers were in splendid condition.

A Bostonian never repines,
His passing regret he disguises,
As he watches the visitors go,
With most of the coveted prizes.

And we thank all the growers tonight,
For a hundred good deeds we might mention.
Hurrah for the roses they've shown
And hurrah for the great Rose Convention.

OLD MOSES.

Harvard's Stein Song. By Bullard.
Old Moses kept a flower stand
At the corner of the street.
You put a quarter in his hand
To get a bouquet sweet.
He often made his blooming trade
To bring him lots of pelf,
But whenever he gave his plants a drink
He took two drinks himself.

Old man Moses, he sells posies,
All he knows is, the prices of roses
So earnestly he plied his trade
He'd never go to feed.
He always said he was afraid
His flowers might go to seed.
One windy day he withered away,
They buried him with his boots,
And now I suppose his jolly red nose
Is smelling the flower's roots.

Old man Moses, now reposes,
Where the roses, deck his toses
Under the roses, Moses nose is.

The A. H. Hews Company presented a \$50.00 cup instead of a \$25.00 to the winner of the prize offered by them at the Boston Rose Exhibition.

ROSES POT NOW FOR DECORATION DAY

BABY RAMBLERS, FINE STRONG STOCK, (Field Grown)
\$3.00 per dozen \$25.00 per 100

HARDY PERPETUAL ROSES

I offer all the following varieties in strong, low budded, two year old bushes

\$1.25 per 10,	\$10.00 per 100,	\$90.00 per 1000,	250 at the 100 rate
Abel Carrier, crimson		Gen Jacqueminot, crimson	
Alfred Colomb, carmine		Mad. John Laing, pink	
Ball of Snow, pure white		Mabel Morrison, pure white	
Baron de Bonstetten, dark crimson		Mme. Chas. Wood, carmine	
Baroness Rothschild, pink		Margaret Dickson, white	
Captain Christy, flesh color		Magna Charta, dark pink	
Chestnut Hybrid, red		Perle des Blancs, white	
Earl of Dufferin, bright red		Persian Yellow, yellow	
Frau Carl Druschki, snow white		Prince Camille de Rohan, crimson	
Fisher Holmes, dark crimson		Paul Neyron, dark pink	
Duke of Edinburgh, bright vermillion		Ulrich Brunner, cherry-red	
Gloire de Margottin, dazzling red		Moss, white	
Gen. Washington, red		Moss, pink	
Geant des Batailles, crimson		Moss, red	

HYBRID TEA ROSES			
American Beauty	\$1.50 per 10,	\$12.00 per 100,	
Kaiserin Augusta Victoria	1.50 "	12.00 "	
La France	1.50 "	12.00 "	
Maman Cochet, pink, own root	1.00 "	9.00 "	\$85.00 per 1000
Maman Cochet, white, own root	1.00 "	9.00 "	25.00 "

NEWER TEA ROSES			
Bessie Brown, creamy white		\$1.75 per 10	\$15.00 per 100
Gruss an Teplitz, red		1.50 "	12.00 "
Etoile de France, red		4.50 "	40.00 "
Konigin Karola, pink		2.00 "	18.00 "
Mildred Grant, cream		1.75 "	15.00 "

POLYANTHA ROSES			
Clothilde Soupert, white		\$1.50 per 10	\$12.00 per 100
Hermosa, pink		1.50 "	12.00 "

ARTHUR T. BODDINGTON SEEDSMAN

342 West 14th St., New York City, N. Y.

THE F. E. CONINE NURSERY CO.

Successor to FRANK ELMER CONINE. STRATFORD, CONN.
Established 11 years. —HAVE FOR SALE—

1500 AUSTRIAN AND SCOTCH PINES

for immediate effect, ranging from 3 to 8 ft. in height. 3 times transplanted. Root pruned. Well furnished. Grown in heavy soil with elegant roots. The majority of them Specimens. No better in This Country. Come and pick them out. Also General Nursery Stock.

Cyclamen Giant Hybrids

Seed taken of exhibition stock the cream of my own strain. None better. 35,000 ready in 6 separate colors, including Salmonum, Papilio, Rococo and fringed varieties, once transplanted, \$2.50 per 100. \$22.50 per 1000; twice transplanted, \$3.50 per 100.

Impatiens HOLSTII without doubt one of the best varieties in years, being a continual blooming plant of scarlet flowers, excellent for pot culture as well as for bedding, sells on sight. \$1.00 per dozen; \$6.00 per 100. Try it, and you won't do without it.

CHRIST. WINTERICH

Defiance, O.

MARQUERITES

Rooted Cuttings Queen Alexandria, the new semi-double white, \$3.00 per hundred. Etoile d'Yvon, yellow, \$2.00 per hundred.

THE F. W. FLETCHER CO.

AUBURNDAL, MASS.

Dracæna Indivisa, 2 1/2 in., 4 in., 5 in., 7 and 8 in., per doz., 75 cts., \$2.00, \$3.00, \$4.00 and \$5.00. Per 100, \$6.00, \$15.00, \$20.00, \$30.00 and \$40.00.

Vinca variegata, 4 in., 5 in. Per doz., \$1.50, \$2.00. Per 100, \$12.00, \$15.00.

Dahlias, tuber per doz., 75 cts., per 100, \$6.00.

Variegated Century Plants—prices and sizes on application. Cash Please.

E. & C. Woodman, Florists, Danvers, Mass.

HEADQUARTERS for PLANT STAKES, Etc.

HYACINTH STAKES (Wood)
Also suitable for Tulips and other purposes.

DYED GREEN	per 100	per 1,000
12 inch	\$.15	\$15.00
18 inch	\$.20	20.00

CANE STAKES

	100	500	1,000
Southern	\$.75	\$3.00	\$6.00
Japanese, Very thin,			
about 6 feet long	.75	3.00	5.50

UNPAINTED STAKES or DOWELS (Wood)

	100	1,000
36 in. long 3-16 in. diam.	\$.60	\$4.50
36 " 5-16 "	.55	4.50
36 " 5-8 "	.70	6.00
36 " 1-4 "	.80	4.50
36 " 3-8 "	.60	4.00
42 " 3-16 "	.65	5.50
42 " 1-4 "	.60	5.50
42 " 5-16 "	.65	5.50
42 " 3-8 "	.75	5.25
42 " 5-8 "	.85	7.50

We can supply these dowels, dyed green, 50c. per 1000 additional.

RAFFEA (Fresh and Strong)
Natural. 15c. per lb.; 10 lb., \$1.25.
\$11.00 per 100 lb.

Colored. All shades, samples mailed on request. Per lb., 40c.; 5 lb. lots, 38c. lb.; 10 lb. lots, 35c. lb.

Write for new complete trade list, now ready.

HENRY F. MICHELL CO.

Seed Importers and Growers

1018 Market St., Philadelphia, Pa.

SAN FRANCISCO NOTES.

Frank P. Shibeley, a veteran florist of San Francisco, received a splendid floral order this week from a florist in Lowell, Mass., for quick shipment to the City of Mexico, the stock being largely violets and roses. Mr. Shibeley, who successfully conducted a down-town floral depot for many years, has recently removed his store a mile westward, to the corner of Polk and Sutter streets.

The news of the opening of an improved foreign market comes as a welcome surprise to ranchers of the Santa Clara valley. Last year was better than others, yet many of the growers and packers about San Jose and neighboring towns, the center of the prune district of California, complained because of their inability to market their goods at a fair profit. So gloomy was the situation that some of the growers cut down their prune orchards in despair of ever getting reasonable returns for the time and money invested. It is probable that the outlook for this year will save many orchards that would otherwise have been sentenced to the ax.

The nursery business of the season has closed at Fresno, Cal., with a record unequaled in the last twenty years. The local yards are absolutely sold out of peaches, and estimates of the new acreage planted in this district alone exceed 7000. The demand for Muscat grapes has been very large, notwithstanding the unsettled condition of the raisin situation, and more than 3000 acres of new vines have been set out. Apricots and citrus stock are also favorites, and, in fact, every variety of fruit tree has been sold as never before, except prunes. Prices are reminiscent of old boom days. Peach trees have sold at an average of \$225 a thousand, as against \$140 last year, and sales are on record of the unprecedented price of \$350 for the Muir variety. Los Angeles and Sacramento counties bought all the pear trees. Large shipments of deciduous fruit stock of all varieties have been made to Mexico, South America, South Africa and Australia. The local result will be a great increase in the output of fruit in two or three years.

FIRE RECORD.

A fire which started around the boiler did about a thousand dollars' damage to the greenhouses of W. F. Spry of Manchester, Mass.

The four-story seed and agricultural warehouse of W. W. Rawson & Co., 12-13 Faneuil Hall square, Boston, was completely destroyed by fire on the morning of March 23. Loss on building and contents \$100,000. Insurance \$25,000.

LIST OF PATENTS.

Issued March 20, 1906.

- 815,495. Lawn Sprinkler. Oscar P. Waggener, Klamath Falls, Oregon.
- 815,660. Fruit Picker. Charles L. Uthus, Harvard, Ill.
- 815,901. Nursery Tree Digger. Christian Brosey, Medway, Ohio, administrator of David Feigly, deceased.

NEWS NOTES.

Winchester, Mass., has appropriated \$13,000 for gypsy and brown-tail moth extermination during the current year.

The Connecticut State Board of Agriculture at its meeting in Hartford, March 15, appropriated \$1000 for fighting the gypsy moth.

Nathaniel Hannaford opened his new greenhouse at Gorham, Me., March 15, with a social evening, at which music, refreshments and dancing were the attractive features.

John Scott, of West Newton, Mass., has sold his property, which included three large greenhouses besides pear and peach orchards, and it will be converted into a private estate.

Among the innovations on the new steamship, the Kaiserin Auguste Victoria, which makes her initial trip from Hamburg to New York on May 10, will be a magnificent palm garden with fountains.

HOTHOUSE GRAPE VINES,


fine strong, two and three year old canes, Black Hamburg, Muscat Alexandria and other varieties.

Rose Hill Nurseries,
NEW ROCHELLE, N. Y.

FOREST TREE AND SHRUB SEEDS AND SEEDLINGS

Catalpa Speciosa, Black Locust. Nursery grown and collected seeds and seedlings.

FOREST NURSERY AND SEED CO.
McMINNVILLE, TENN., R. F. D. 2



PIONEER GUARANTEED NURSERY STOCK AT WHOLESALE PRICES.

All stock guaranteed disease free and true to name.
Hart Pioneer Stock is pure bred and produces heavy crops.
Value received for every dollar sent us. No Agent's Commission.
WRITE FOR COMPLETE PRICE LIST. WE WILL SAVE YOU MONEY.
HART PIONEER NURSERIES, Established 1865. **Fort Scott, Kan.**

The F. E. CONINE NURSERY CO.

(Successor to Frank Elmer Conine). STRATFORD, CONN.
Established 11 years. Have for sale GENERAL NURSERY STOCK.

Also the following large Stock for immediate effect:

1500 well furnished AUSTRIAN AND SCOTCH Pines. 3 to 8 ft. Three times transplanted in heavy soil. Elegant roots.
Golden Elder, 4 to 6 ft.
Hydrangea P. G., 3 1-2 to 4 ft.
Hydrangea P. G., Trees 8 years old.
Mahonia Aquifolia 2 to 3 ft.
Azalea Mollis Standard Am. grown.
Forsythias, 5 to 7 ft.
Stephanandra, 4 yrs old.
Spiraea Thunbergii, 4 yrs. old.
Spiraea Van Houttei, 3 to 4 ft.
Wiegela, 4 to 5 ft.
Spiraea Opulifolia, 4 to 6 ft.

Sambucus Laciniata, 4 yrs. old.
Cut Leaf Birch, 10 to 15 ft.
Cal. Privet, 3 to 4 ft. and 4 to 5 ft.
Ibota Privet, 4 to 5 ft.
Regelianum Privet, 3 yrs. old.
Berberis Thunbergii, 3 yrs.
Hypericum Moserianum, 3 yrs.
Desmodium Penduliflorum, 3 yrs.
Ampelopsis Englemanni, 3 yrs.
Euonymus Radicans Var., 4 yrs.
Euonymus Radicans, 4 yrs.
Rose Dorothy Perkins, 3 yrs.
Crimson Ramblers, 4 yrs., etc., etc.

AMERICAN GROWN ROSES 50,000 ROSES.

Write for Varieties and Prices.

HIRAM T. JONES, Union County Nurseries, Elizabeth, N. J.

VINCA MINOR

Our stock of this most valuable ground cover is unsurpassed. We send out strong clumps, not single plants—and thus produce an effect at once. Write for catalogues.

EASTERN NURSERIES, M. M. Dawson, Mgr.,

Jamaica Plain, Mass.

CALIFORNIA PRIVET.

A large stock of two and three year old (transplanted), from 12 inches to four feet well finished plants at very low prices for quality of stock. Get my prices before purchasing. Satisfaction guaranteed. Address,

CHARLES BLACK,
HIGHTSTOWN - N. J.

KOSTER BLUE SPRUCE

5 ft. to 8 ft. high

J. H. TROY, New Rochelle, N. Y.

OUR ADVICE

Every Issue of this Paper reaches the eye of dealers whose customers want to plant decorative material about their homes. ❀ ❀

Advertise What You Have to Offer NOW

The Cottage Gardens

Contain the finest assortment of selected specimen Evergreen, Deciduous Trees and Shrubs procurable, and its Landscape Department is at your service in arranging them. Price list ready now. Has tables of the best herbaceous plants, giving common and botanical names, height, color and season of bloom. Sent free. All inquiries cheerfully answered.

COTTAGE GARDENS CO., QUEENS L. I.

Three Sterling Carnation Novelties

Winsor, White Enchantress, and Helen M. Could

There is nothing about any of these varieties that we wish to conceal; therefore, we cordially invite all carnation growers to pay us a visit. Come at any time.

WINSOR—Winner of Lawson Silver Medal.

This is sure to prove a winner. Nothing approaches it in color, which is a clear silvery pink—a shade between Enchantress and Mrs. Thos. W. Lawson—and much more beautiful than either. In fact, it is just the shade that we have all been trying to get. The color will make it sell in any market. The stem is just right. The flowers are considerably larger than Lawson and much better shaped. As a grower it has everything that can be desired. So far we have not seen any large-flowering variety quite so free as Winsor.

WHITE ENCHANTRESS.

A pure white sport of Enchantress, at once the most popular and most profitable carnation grown today, on account of its size and stem and freedom with which it blooms. White Enchantress is identical in every respect but color. Those desiring quality as well as quantity will find it in White Enchantress.

HELEN M. COULD.

This is a beautiful variegated sport of Enchantress. The ground color is a lovely shade of clear pink, the variegation carmine, making an exquisite combination of colors, besides being something distinctly new. At a short distance the variegation does not show at all, the general effect being a beautiful shade of dark pink. Growth, habit, size, and stem are the same as Enchantress.

We have fine stocks, from which we can deliver healthy cuttings of Variegated Lawson, White Lawson, Red Lawson, Enchantress, Mrs. M. A. Patten, Lady Bountiful, etc.

Our Variegated Lawson is all that we claimed for it last season, and is giving the fullest satisfaction everywhere—the best in the variegated class. Come and inspect our stock of new and standard sorts

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

CARNATION CUTTINGS

THESE VARIETIES ARE READY NOW

	per 100	per 1000		per 100	per 1000
NEW Skyrocket, (scarlet) a good thing.....	\$6.00	\$50.00	SPECIAL. 20,000 Extra Strong 2 inch Mrs. Thos. W. Lawson.....	3.00	25.00
NEW Daybreak Lawson or Melody. Will be sold next year at same price by other firms.....	12.00		Prosperity, same class of stock, same price.....		
NEW Glendale, variegated. The first variety to supersede Mrs. Bradt; marking similar but improvement in growth, freedom and length of stem.....	12.00	100.00	Mrs. M. A. Patten, from soil.....	3.00	25.00
NEW Jessica, variegated, (Weber) a fine thing. 2 inch plants, strong.....	14.00		Harlowarden, crimson, from sand.....	2.00	15.00
			Prosperity, from sand.....	2.00	15.00
			Mrs. Thos. W. Lawson, from sand.....	2.00	15.00
			Lady Bountiful, from sand.....	4.00	35.00
			Variegated Lawson, from sand.....	5.00	40.00

ROSE PLANTS (from 2 inch pots)

	per 100	per 1000		per 100	per 1000
American Beauties.....	\$6.00	\$50.00	Mad. Chateauf. Bride, Bridesmaid, Golden Gate.....	\$3.00	\$25.00

CHICAGO CARNATION CO. - - JOLIET, ILL.

	100	1000
RICHMOND ROSE 2 1/4 in. \$12.00 \$100.00		
KAISERIN " " 4.00 35.00		
VARIEGATED LAWSON R.C. 6.00 50.00		
ENCHANTRESS 3.00 25.00		
QUEEN and LAWSON 2.00 18.00		

1st March delivery
E. H. PYE, FLORIST
UPPER NYACK, N. Y.

ROOTED CUTTINGS

Robert Craig, Victory, John E. Haines, White Perfection, Variegated Lawson and My Maryland

Also all the leading commercial varieties.

Send for list.

WM. SWAYNE, Kennett Sq., Pa.

Some People have taken our advice as published in My Maryland

these columns recently and are buying for trial. We reiterate here—if it succeeds with you as it does with us, it will prove the best white carnation you ever grew. Despite the variety's apparent failure in several places, we strongly advise all growers to give it a trial. We have been frank about its faults as developed in other places. We doubt if these will develop in many places.

Jessica we believe, will succeed generally and will prove to be the best red and white variegated ever disseminated. Few varieties show as strong constitution as this one does, and it is a wonderful producer. Extra fine stock of both varieties ready now. R. C. \$25 per d. \$200 per 100. \$100.00 per 1000. Pot plants, \$3.00 per 10 extra.

Send for our catalog, now ready.

The H. Weber & Sons Co., Oakland, Md.

RED SPORT

Sold on its merits alone.

	Per 100	Per 1,000
RED SPORT	\$5.00	\$40.00
QUEEN LOUISE	1.25	10.00

A. B. DAVIS & SON, Inc.
PURCELLVILLE, VA.

We are booking orders for June delivery

Begonia Gloire de Lorraine

Cuttings from 2 1/2 inch pots.

Ready for 4 inch. Price \$10.00 per 100.

Not a fiction guaranteed. Place your order now

INNES & McRAE, - Cheswick, Pa.

STRONG WELL ROOTED CUTTINGS

Of the following varieties ready for immediate delivery

Robert Craig	\$12.00 per 100	\$100.00 per 1000
Enchantress	3.00 per 100	25.00 per 1000
Mrs. M. A. Patten	4.00 per 100	30.00 per 1000

J. D. THOMPSON CARNATION CO., Joliet, Ill.

AT BOSTON Robert Craig Wins Again

Not another scarlet carnation has been able to take first honors with ROBERT CRAIG.

The introducers of CRAIG fill all orders on time and send out only healthy, vigorous, well grown selected cuttings taken from blooming stems.

Send in your order now.

We can fill it promptly.

\$3.00 for 25	\$12.00 for 100	\$50.00 for 500
6.00 for 50	25.00 for 250	100.00 for 1000

5 per cent. discount for cash with order.

COTTAGE GARDENS COMPANY,
QUEENS, N. Y.

FINE SILVER CUPS and TROPHIES

For Exhibition Awards, Sporting
Events, etc.

FINEST ASSORTMENT IN THE COUNTRY
FROM THE BEST MANUFACTURERS AND
AT LOWEST PRICES.

THORNTON BROS.,
LAWRENCE, MASS.

Coleus Rooted Cuttings

Verschaffeltii, Fire Brand, Beckwith's Gem, 60c. per 100.	Golden Queen, Queen Victoria, Fancy Va- rieties, \$5.00 per 1,000.
Golden Bedder, Mes- sey, 75c. per 100.	Hero, Pearl of Orange, \$6.00 per 1,000.

Positively free from mealy bugs.

Ageratum, Stella Gurney, Princess Pauline,
Salvia, Splendens, German Ivy, 75c. per 100
\$6.00 per 1,000

A. N. PIERSON
Cromwell, Conn.

Coleus Coleus

Rooted Cuttings Verschaf-
feltii, Golden Bedder and
Several Other Varieties.

\$5.00 per 1,000
60c. per 100

CASH WITH ORDER

J. E. FELTHOUSEN
SCHENECTADY, N. Y.

Orchids

Largest Importers, Exporters, Growers
and Hybridists in the World

Sander, St. Albans, England

ORCHIDS

Just arrived a large shipment of
Cattleya Gigas

Write for Prices

Lager & Hurrell, Growers and Importers... Summit, N.J.

ORCHIDS, PALMS

FOLIAGE PLANTS
Bay and Box Trees

JULIUS ROEHRS CO.

EXOTIC NURSERIES RUTHERFORD, N. J.

Sphagnum Moss and Cedar Poles
Moss 15 lb Bale, \$1.25; 3 Bales, \$3.25; 5 Bales,
\$5.00; Pkg Moss, 10 Bales, \$7.50 Poles, 2 inch
butt 8 feet long, \$15.00 per 100; 2 1/2 inch butt
16 to 12 feet long, \$22.50 per 1000. Cash.

H. R. AKERS, Chatsworth, N. J.

In writing to Advertisers kindly
mention HORTICULTURE.

FREESIA.... Refracta Alba and Hybrids

5,000,000 to dig this season.

Price and quality of stock cannot be beaten.

Also Grand Duchess Oxalis, all colors,
Bermuda Buttercups, Tritonias, Ixias,
Sparaxis Chlidanthus Fragrans, Zephy-
ranthes, Candida and Rosea Ornithoga-
lum, Amaryllis Johnsoni and Belladonna,
Fancy Vittati Hybrids. Will begin digging in
May and deliver in June and July.

REES & COMPERE,
P. O. Address, Long Beach, Cal., 227, R. F. D. 1.

PANSIES

From our Well Known Strain. None better
in Bud and Bloom. \$1.00 per 100. Plants that
will bloom soon \$2.50 per 1000.

Daisies (Bellis) in bloom, \$1.00 per 100.

Primula Obconica in Bloom, 5 inch pots.

\$7.00 per 100.

Spiraea Compacta and Japonica, 6 inch
pots. \$2.50 per doz.

J. C. SCHMIDT CO., Bristol, Pa.

PANSIES!!!

Pugnot Mammoth Strain, giant flow. Finest colors,
wintered in cold frames, stocky plants, \$3.00 per 1000.
\$1.00 per 100. Sweet Williams, strong clump
plants, single and double, \$3.00 per hundred. Canna Roots,
best kinds named, \$1.00 to \$2.00 per 100. Dahlias,
old roots, double, named, for cut flowers, \$1.50 per
100. Cash please. Price list free.

IMPERIAL SEED & PLANT CO., Grange, Baltimore, Md.

500,000 COLEUS

Verschaffeltii, Golden Bedder and fancy named varieties.

Rooted Cuttings, 60c. per 100, \$5.00 per 1000 Cash.

H. N. EATON, South Sudbury, Mass.

Bulbs for Easter.

Hyalinths, Jonquils, Tulips, first-class bulbs, just right for Easter flowering, $4\frac{1}{2}$ in. pots, \$1.50 per doz. \$10 00 per 100.

ASPARAGUS SPRENGERII, 4 1-2 in. pots, \$1.50 per doz., \$10.00 a 100; strong, 3 in. pots, 75c. per doz., \$5.00 per 100; 2 in. pots, \$2.00 per 100.

ABUTILON SAVITZII, 3 in. pots, 75c. per doz., \$5.00 per 100; 2 in. pots, 50c. per doz., \$3.00 per 100.

CLEMATIS PANICULATA, 4 in. pots, \$1.50 per doz., \$10.00 per 100; 3 in. pots, 75c. per doz., \$5.00 per 100.

CLEMATIS, large fl. 2 year old plants, \$3.00 per doz.

DAISY, Queen Alexandria, 3 in. pots, 75c. per doz., \$5.00 per 100.

EUONYMUS, golden variegated, 2 1-2 in. pots, 60c. per doz., \$3.00 per 100.

EUONYMUS, radicans, var., 2 1-2 in. pots, 50c. per doz., \$3.00 per 100.

PRIMULA ORCONICA, 4 in. pots in bloom, \$1.00 per doz.

GERANIUMS, double scarlet, white and pink, from 3 in. pots, strong, \$4.00 per 100.

C. EISELE, 11th & Roy Streets, PHILADELPHIA, PA

NEXT WEEK EASTER NUMBER

"NUF SED"

SEND COPY AT ONCE. IT WILL
REACH THE

BUYERS

EASTER of 1906

WE HAVE BEEN GROWING

EASTER PLANTS

FOR TWENTY-FIVE YEARS

This year our stock is finer
than ever

We invite inspection of our

Azaleas Crimson Ramblers
Hydrangeas Genestas
Lilies Rhododendrons
New Daisy Queen Alexandra

COME AND LOOK US OVER
PRICE LIST ON APPLICATION

ROBERT CRAIG CO.

49th & Market Sts., Philadelphia, Pa.

R. & J. FARQUHAR & CO.

6 and 7 South Market Street
Boston, Mass.

PALMS

SPECIAL SURPLUS OFFER

KENTIA BELMOREANA

	Doz.	100
3½ inch Pots 4-5 leaves	\$2.00	\$15.00
4 " " 5-6 " "	4.50	35.00
5 " " 6-7 " "	at 1.00 each	

F.O. B. Boston, no charge for packing

Cash with order or satisfactory references

Palms, Ferns

And Decorative Plants

A Fine Lot of AZALEAS in Great Variety

A Large Assortment of Ferns for Jardinieres

Also, Araucarias, Rubbers, Pandanus, Aralias, Dracaenas, Aspidistras, Marantas, Crotons etc., etc.

WHOLESALE PRICE LIST ON APPLICATION

A. LEUTHY & CO.

Importers and Exporters
Growers and Dealers

PERKINS STREET NURSERIES
Roslindale, Boston, Mass.

It is never too early nor too late
to order the

Scott Fern

Best Commercial Introduction for many years
JOHN SCOTT

Flatbush, Brooklyn, New York.

NEPHROLEPIS BARROWSII, \$10 PER 100

SCOTTII, 5 " "

BOSTON, 3 " "

HENRY H. BARROWS & SON,
Florists, Whitman, Mass

EASTER STOCK

HYDRANGEAS
EASTER LILIES
AZALEAS, 50c. to \$7.50
GLADSTONE SPIREAS
RAMBLER ROSES
HERMOSA ROSES
TULIPS, (in pans)
HYACINTHS, (in pans)
DEUTZIA
RHODODENDRONS, etc.

WILLIAM C. SMITH

61st and Market Street, PHILA.

Market Street cars take you direct
to our door. Mention Horticulture when you write.

GODFREY ASCHMANN

1012 Ontario St., PHILADELPHIA

Importers of Araucaria excelsa, glauca, compacta, and robusta

PALMS and AZALEAS

Write for prices

EASTER LILIES

Two to three hundred Pots, 3 to 6 buds, in fine condition, 10c. per bud; also 4 in. Pot Geraniums, 1 to 3 buds and blooms, 8 cts. each.

COHANZIE CARNATION CO.
New London, Conn.

Nephrolepis Piersoni Elegantissima

F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, NEW YORK.

LILIES for EASTER

FINEST LONGIFLORUMS IN THE COUNTRY

50,000 in pots, same quality as in other years, packed in cases of 25 plants.

PRICE, 12 CENTS PER BUD

Shipped in bud a week or so before Easter.

We assume no risk in shipping lilies that are opened. Order now.

N. F. McCARTHY & CO.,

**84 HAWLEY STREET,
BOSTON, MASS.**

EASTER PLANTS

Representing as we do the best of the Philadelphia plantmen, we are in a position to offer our customers an excellent selection of Easter plants. It will pay you to make your arrangements early to insure satisfaction. The quality this year is fine and the quantity above the average. Send for our price list, in which you will find a number of

Desirable Novelties

SAMUEL S. PENNOCK

1608-12-14-16-18 Ludlow Street
PHILADELPHIA

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

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4326-28 ST. LOUIS, MO.
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Established 1873
Long Distance Phone Bell Lindell 676

Albany, N. Y. **EYRES**

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON
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11 NORTH PEARL ST., ALBANY, N. Y.

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**Artistic Designs
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.



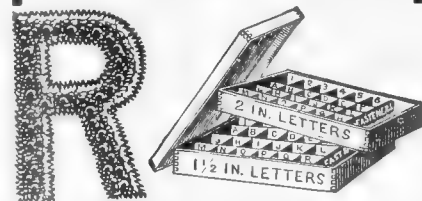
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**SAMUEL MURRAY
Florist**

Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO.
Both 'Phones 2670 Main

BOSTON FLORIST LETTER CO.
Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1½ or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. McCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

REED & KELLER
122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Glassware Decorative Greens and Florists' Requisites.

70,000 Flowering Plants for Easter

20,000 Pots Lilium Longiflorum.
5,000 Crimson Ramblers, trained
in unique and artistic designs, \$1.00
to \$25.00 each.

10,000 Azaleas, \$.75 to \$15.00 each.
1,000 Hydrangeas, \$.75 to \$3.00
each.

3,000 Spiraea Gladstone, etc.,
\$.60, \$.90, and \$12.00 per doz.

5,000 H. P. Rose Plants, \$.60,
\$.90, and \$12.00 per doz.

Rhododendrons, \$1.00 to \$15.00 each
Genestas, \$.90, \$12.00 \$18.00 and
\$24.00 per doz.

Metrosideros (Bottle Brush), \$1.00
\$1.50, and \$2.00 each.

A large assortment of Hyacinths in pans, \$.90,
\$12.00 per doz. pans CASH.

H. C. STEINHOFF
WEST HOBOKEN, - N. J.

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Patronize our advertisers, they will treat you right

BEAUTIES VALLEY AND ORCHIDS FANCY CARNATIONS

Write for Prices on Easter Plants.

The Leo Neissen Co.

WHOLESALE FLORISTS
1217 Arch St., == PHILADELPHIA

Store Open 7 A. M. to 8 P. M.
In writing advertisers, mention Horticulture

FARLEYENSE SPECIMEN FRONDS

\$15.00 per 100

WHITE LILAC, 50c. per bunch

Samuel S. Pennock

The WHOLESALE FLORIST OF PHILA.

1612-1618 Ludlow Street. Store closes 8 P. M.

Carnations.

Beauty Bride
and Bridesmaid.

Lily of the Valley.

Violets.

Telephone 6268-6267 Main

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Wholesale Growers of

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CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

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45-47-49 Wabash Ave., Chicago

Wholesale Cut Flowers and
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CUT FLOWER ORDERS OUR SPECIALTY

The leading Florists supply house of the west.
Supply Catalogue free.

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Cut Flowers

"THE OLD RELIABLE"

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VAUGHAN & SPERRY

Wholesale
Commission Florists

If you wish to buy or sell, see them first
PHONE CENTRAL 2571
60 WABASH AVE., CHICAGO

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Wholesale Florist

1221 Filbert St., PHILADELPHIA

EVERYTHING SEASONABLE IN CUT FLOWERS

EDWARD REID, Wholesale Florist

1526 Ranstead Street, PHILADELPHIA
Store Closes 8 P. M.

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		ST. LOUIS		PHILA.		BOSTON	
	March 26		Mar h 26		March 26		M.rch 29	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	40.00	to 50.00	25.00	to 35.00	35.00	to 40.00	20.00	to 25.00
" Extra.....	25.00	to 35.00	15.00	to 20.00	25.00	to 35.00	10.00	to 15.00
" No. 1.....	8.00	to 12.00	10.00	to 12.50	15.00	to 25.00	6.00	to 8.00
" Lower grades.....	.....	to	4.00	to 8.00	6.00	to 12.50	2.00	to 5.00
Bride & 'Maid—Fan. & Sp.....	10.00	to 12.00	6.00	to 8.00	.....	to 12.00	6.00	to 8.00
" Extra.....	6.00	to 8.00	4.00	to 5.00	8.00	to 10.00	4.00	to 6.00
" No. 1 and Lower gr.....	3.00	to 5.00	.....	to 3.00	6.00	to 8.00	1.00	to 5.00
Liberty, Fancy.....	8.00	to 10.00	.....	to	20.00	to 25.00	12.00	to 16.00
" Ordinary.....	4.00	to 5.00	.....	to	6.00	to 10.00	2.00	to 6.00
Richmond, Fancy.....	8.00	to 10.00	6.00	to 8.00	15.00	to 20.00	10.00	to 20.00
" Ordinary.....	4.00	to 6.00	3.00	to 5.00	8.00	to 10.00	6.00	to 8.00
Golden Gate, Fancy.....	8.00	to 10.00	1.00	to 8.00	8.00	to 10.00	6.00	to 8.00
" Ordinary.....	4.00	to 6.00	3.00	to 5.00	5.00	to 6.00	1.00	to 4.00
Chatenay, Fancy.....	8.00	to 10.00	6.00	to 8.00	10.00	to 12.00	6.00	to 8.00
" Ordinary.....	4.00	to 6.00	3.00	to 5.00	4.00	to 8.00	1.00	to 3.00
CARNATIONS								
Fancy.....	3.00	to 4.00	2.00	to 3.00	3.00	to 4.00	1.50	to 2.00
Ordinary.....	1.00	to 2.00	1.00	to 1.50	1.50	to 2.00	1.00	to 1.50
MISCELLANEOUS								
Cattleyas.....	.....	to .....	.....	to .....	.....	to	50.00	to 75.00
Lilies.....	10.00	to 20.00	10.00	to 12.50	10.00	to 12.50	8.00	to 12.00
Callas.....	10.00	to 15.00	10.00	to 12.50	8.00	to 10.00	8.00	to 12.00
Lily of the Valley.....	2.00	to 4.00	3.00	to 4.00	2.00	to 4.00	2.00	to 3.00
Violets.....	.25	to 1.00	.25	to .40	.40	to .75	.20	to .50
Tulips.....	2.00	to 4.00	3.00	to 4.00	.....	to	1.00	to 2.00
Roman Hy., Paper White, Nar.....	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00	1.00	to 1.50
Daffodils; Trumpets.....	2.00	to 4.00	.....	to 1.00	.....	to .....	.75	to 1.60
Freesia.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Mignonette.....	.....	to	4.00	to 5.00	3.00	to 4.00	.....	to 2.00
Adiantum Cuneatum.....	50	to 1.00	.....	to 1.00	.....	to 1.00	.75	to 1.50
" Croweanum.....	.....	to .....	.....	to .....	.....	to 1.50	.....	to 1.50
Smilax.....	10.00	to 15.00	12.50	to 15.00	20.00	to 25.00	12.00	to 16.00
Asparagus Plumosus, strings.....	.....	to	25.00	to 50.00	50.00	to 75.00	.....	to 50.00
" " & Sprenger bunches.....	25.00	to 45.00	25.00	to 50.00	50.00	to 75.00	20.00	to 50.00
Lilacs per 100 bunches.....	100.00	to 150.00	.....	to 75.00	35.00	to 50.00	.....	to

J.A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and
Carnations
A Specialty.....

WHOLESALE
GROWER of

CUT FLOWERS

VICTORY

We do not need to advertise Victory aggressively any longer. We are making prompt deliveries of Cuttings daily and are giving universal satisfaction. ENOUGH SAID!

CUT FLOWER MARKET REPORTS.

BOSTON The flower glut seems to be coming on apace and should favoring skies cooperate with the oncoming crop a sort of deluge may be looked for during the next two weeks. Our quotations do not tell the whole story as much material is distributed to the street fakirs at the close of the day's legitimate market, at prices that only apply to a surplus unloaded in bulk. Roses are rapidly increasing; so are carnations. Bulbous stock continues in oversupply. Narcissi are more plentiful than ever before in this market. Violets show signs of rapid waning. Lilies hold their own quite freely, longiflorums bringing, as a rule, about two dollars a hundred better price than Harrisii. Smilax is not scarce in this market although it is the traditional time of scarcity in that commodity. Asparagus is cutting into the smilax trade quite deeply.

CHICAGO Last week was the busiest week ever known during the Lenten season. This week there is a great improvement in all grades of stock. Carnations are very plentiful. Roses have increased in number as well as color. Beauties are very readily found. Bulbous stock is increasing in variety. Lily of the valley and violets continue steady in demand. Some extra fine smilax was shipped in which lost no time in being picked up and taken to a safe retreat. Other green goods can be found with ease.

COLUMBUS The craft does not look for any good business now before Easter. Carnations continue to be a flood. I must speak a good word for the La Detroit rose; it is very popular here. The florists cannot always obtain enough to satisfy the demand; customers rave over this beautiful shell-pink, peony-like rose. Everyone is making the most elaborate preparations for Easter. If the snow is gone and Easter week pleasant, there will be an enormous business done.

DETROIT At the commission houses we find good stock and lots of it. But the demand is lacking, carnations of all colors being undisturbed by buyers. Violets are selling slowly, but there is an increase in the sale of roses.

LOUISVILLE Business the past week was very good, especially with the retailers, while the weather was very bad for the growers. There has been an abundance of roses of superior quality; demand; there have been only occa-

sional calls for lily of the valley, and the supply of violets has been short. Mignonette, hyacinths, tulips, jonquils and daffodils are received in quantity sufficient to meet the steady demand.

NEW YORK The long deferred smashup in flower values has at last struck us and, with largely increased shipments of roses and carnations during the past week, and the attendant light demand, prices have fallen to a lower plane than at any time since Thanksgiving. Roses have suffered more severely than have carnations in the decline. With the exception of cattleyas everything is in ample supply for all demands.

ST. PAUL AND MINNEAPOLIS

In spite of our first spring rain, business started in well for this week. Last week was not so good but prospects are better now. Carnations of all kinds are plentiful. Roses, especially Brides, Bridesmaids and Chateau are in prime condition and are cut every day in thousand lots. There are plenty of double violets as there will be until after Easter, but the single ones are all gone except a few stragglers of very poor quality. The supply of bulb stock is fully equal to the demand and the quality is fine. Daffodils are large and vigorous and sell readily. Lily of the valley and Harrisii just keep up with the demand with none to spare. Among the potted plants rhododendrons and azaleas are leaders and sell at very good prices.

BUSINESS CHANGES.

Lubliner & Trinz have opened a branch store at 143 Wabash avenue, Chicago.

The Wright Floral Co. of Ottawa, Can., has been incorporated with a capital stock of \$40,000.

J. F. Ammann Edwardsville, Ill., has opened a new store in the Barnett building on St. Louis street.

The Piety Corner Conservatories, Waltham, Mass., have been purchased by R. T. Goinsalvas, who is making many improvements.

James McManus and James Hart, hitherto located on West 30th street, New York City, are to move to West 28th street in the near future.

The improvements being made in the store of W. W. Powers, Nashua, N. H., will place it among the up-to-date florist establishments in the state.

F. S. Hicks, G. W. Crawbuck of Brooklyn, N. Y., and J. C. Merritt,

Farmindeale, L. I., have incorporated under the name of Hicks & Crawbuck, with a capital of \$15,000.

A new retail establishment has been opened in the Reliance building, corner of State and Washington streets, Chicago, to be known as the Reliance Floral Co., with C. Pedersen as manager.

A new nursery and greenhouse concern has been incorporated to do business in Toledo under the name of The Perennial Gardens Co. The incorporators are well-to-do men not known to the trade, but the moving spirits are said to be old practical hands in the trade. They have secured a fine tract of land, where they will principally grow hardy perennials. Several houses will be erected this summer for the growing of cut flowers and miscellaneous stock and a store will be opened in the city in the fall.



DAGGER FERNS.

1000. Special for Easter, 85c. in lots of 10,000 or over. Stock guaranteed first class.

A. L. FORTUNES, 431 State Street New Haven, Conn.

FERNS

Dagger Ferns
and
Galax Leaves

Bronze or Green Galax,
\$1.00 per 1000; \$7.00
per case. Dagger Ferns,
A 1 stock, \$1.00 per
1000.

Always enterprising, we are now ready with a fine line of Easter Baskets.

Buy your Florist Supplies of

J. STERN & CO.

1928 GERMANTOWN AVE., PHILADELPHIA, PA.
Per postal



H. BAYERSDORFER & CO

50-56 North 4th Street
PHILADELPHIA, PA.

FLORISTS' SUPPLIES

BEST LINE IN THE COUNTRY

You Will Want a Few Begonia Gloire de Lorraine Plants.

My stock comes from an Excellent Source. Why not place your order early to secure June and July delivery?

Strong 2½ in. plants, \$15 per 100, \$140 per 1000

S. S. SKIDELSKY

824 No. 24th Street, - Philadelphia

FRANK MILLANG
Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, NEW YORK
Tel 299 Madison Sq. Open 6 A. M. to 5 P. M.

FORD BROTHERS
48 West 28th Street, NEW YORK
FINE ROSES FANCY CARNATIONS
A Full Line of All CUT FLOWERS
Telephone, 3870 or 3871 Madison Square.

ALEX. J. GUTTMAN
THE WHOLESALE
FLORIST
OF NEW YORK
Phone 1664-1665 Mad. Sq. 43 W. 28th St.

Everything for Easter
HICKS & CRAWBUCK
Wholesale Commission Florists
and Jobbers in Florists' Supplies
76 and 78 Court Street
BROOKLYN, N. Y.

JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
TEL. 1998 MADISON SQUARE 49 W. 28 St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
Choice Cut Flowers
39 West 28th Street, New York
Telephone : 902 Madison Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
BEST BEAUTIES, METEORS, BRIDES AND BRIDESMAIDS
JAMES McMANUS, Telephone 759 Mad. Sq. 50 W. 30th St., New York

H. E. FROMENT Successor to Wm. Chormley
Wholesale Commission Florist
CHOICE CUT FLOWERS
57 West 28th St. New York.
Special Attention to Shipping Orders Telephones: 2200, 2201, Madison Square Write for Current Prices

The Reliable Commission House
Richmond Roses and Rich Flowers
of all varieties
JOS. S. FENRICH
110 W. 28th Street, New York
Tel. 324-325 Madison Square

FOR GOOD PRICES
AND CASH RETURNS
send your flowers to
Phil. F. Kessler
55 West 26th Street, New York.
Telephone 2921 Madison Square.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Mar. 24 1906		First Half of Week beginning Mar. 26 1906			Last Half of Week ending Mar. 24 1906		First Half of Week beginning Mar. 26 1906	
Roses					Carnations, Ordinary	1.00 to 1.50	1.00 to 2.00		
Am. Beauty and Edgeley fan and sp.	20.00 to 30.00		15.00 to 25.00		Cattleyas	35.00 to 60.00	35.00 to 50.00		
" extra	12.00 to 20.00		10.00 to 15.00		Lilies	4.00 to 8.00	4.00 to 10.00		
" No. 1	8.00 to 12.00		5.00 to 10.00		Callas	4.00 to 8.00	4.00 to 8.00		
" Lower grades	2.00 to 7.00		1.00 to 3.00		Lily of the Valley	1.00 to 3.00	1.00 to 2.00		
Bride & 'Maid, fan and sp.	5.00 to 8.00		5.00 to 8.00		Violets	.20 to .50	20 to 40		
" extra	1.00 to 5.00		3.00 to 5.00		Tulips	1.50 to 5.00	2.00 to 4.00		
" No. 1 and lower grades	1.50 to 3.00		1.00 to 3.00		Roman Hy. Paper White Nar.	1.00 to 2.00	1.00 to 2.00		
Liberty, fancy	15.00 to 20.00		12.00 to 15.00		Daffodils, Trumpets	1.50 to 2.00	1.00 to 2.00		
" ordinary	2.00 to 8.00		2.00 to 8.00		Freesia	.50 to 1.00	1.00 to 2.00		
Richmond, fancy	10.00 to 15.00		8.00 to 12.00		Nigronette	2.00 to 5.00	1.00 to 6.00		
" ordinary	1.00 to 8.00		2.00 to 6.00		Adiantum Cuneatum	.50 to 1.00	.50 to 1.00		
Golden Gate, fancy	5.00 to 8.00		4.00 to 5.00		" Croweatum	1.00 to 1.50	1.00 to 1.50		
" ordinary	2.00 to 4.00		2.00 to 3.00		Smilax	15.00 to 25.00	12.00 to 25.00		
Chatenay, fancy	5.00 to 8.00		4.00 to 7.00		Asparagus Plumosus	15.00 to 25.00	15.00 to 25.00		
" ordinary	2.00 to 4.00		2.00 to 3.00		" & Sprenger, bunches	8.00 to 25.00	8.00 to 25.00		
Carnations, Fancy	2.00 to 3.00		2.00 to 4.00		Lilacs per 100 bun. bushes	55.00 to 75.00	35.00 to 75.00		

JOHN YOUNG
Wholesale **FLORIST**
51 West 28th St., New York
Telephone, 4463-4464 Madison Sq.
Best Beauties, Brides and Bridesmaids.
Lily of the Valley, Orchids and
Lilies. Renowned Cottage
Garden Carnations.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
New York
Tel. 1462
1463 Madison Sq.

TRAENDLY & SCHENCK WHOLESALE FLORISTS

Furnish best stock at fair prices all the year round Send for quotations on fall orders
Tel. 798-799 Madison Sq. 44 West 28th Street, New York City

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Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in PLAIN BOXES, WITH OWN TAGS in best manner by

Young & Nugent
42 W. 28th St., New York

In writing to Advertisers kindly mention Horticulture



Fancy Ferns

Wholesale Florists

30 and 40 Miami Ave., DETROIT, MICH.

Michigan Cut Flower Exchange

WM. DILGER
Manager

Send for Our Weekly Price List on Cut Flowers.

\$2.00 per 1000

\$1.75 per 5000 lots

Discount on Regular Shipments

Charles Millang

50 West 29th St., New York City

Cut Flowers on Commission

A Reliable Place to Consign to or order from

Telephone: 3860-3871 Madison Square

ORCHIDS AT ALL SEASONS

WM. STUART ALLEN CO.

Commission Merchants in Cut Flowers

53 WEST 28TH STREET, NEW YORK

Telephone 356 Madison Square

Established
1891

BUY FROM
SHIP TO
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ME

ALFRED H. LANGJAHR

All Choice Cut Flowers in Season

55 West 28th St., New York

Telephone 3924 Madison Square.

BUY YOUR FLOWERS THROUGH

A. MOLTZ

Wholesale Florist

55-57 W. 26th Street - NEW YORK

Best Facilities for Supplying you at Lowest
Daily Market Prices

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J. B. Murdoch & Co.

Wholesale Florists

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545 Liberty St., PITTSBURG, PA.

Long Distance Phone 1435 Court.

Bonnot Bros.

Wholesale Florists

55 and 57 W. 26th St., NEW YORK

Cut Flower Exchange Tel. 820 Madison Square.

OPEN 6.00 A.M.

AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

JULIUS LANG

Wholesale Florist

Consignments received, sold well
and returns made promptly.

53 WEST 30th ST. NEW YORK

Telephone, 280 Madison Sq.

ESTABLISHED 1872

JOHN J. PERKINS

WHOLESALE and COMMISSION FLORIST

115 W. 30th St., New York

Tel. No. 956 Madison Square

Wanted.—A few more reliable growers of
Carnations and Violets. Quick returns and
highest prices.

CARNATIONS AND ROSES

Pittsburg Cut Flower Co., Ltd.

504 Liberty Ave., Pittsburg, Pa.

Crafted Roses

First class, early grafted, Brides
and Bridesmaids on best Eng-
lish stock. Prices \$10.00 and
\$12.00 per hundred. See sam-
ple at Stall No. 52 Park Street
Market.

MONTROSE GREENHOUSES

Montrose, Mass.

Headquarters in Western New York

FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.

BUFFALO, N. Y.

Give us a trial.

We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

NEW CROP SOUTHERN WILD SMILAX \$3.50 and \$7.00 per Case.

Headquarters for all FLORISTS' SUPPLIES. Wire
Designs, Cut Wire, Letters, Immortelles, Cycas Leaves,
Wheat Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main, 2618.

WHOLESALE FLOWER MARKETS.

PER 100.
TO DEALERS ONLY.

	CINCINNATI March 27	DETROIT March 26	BUFFALO March 26	PITTSBURG March 27
ROSES				
Am. Beauty and Edgely, fan and sp.	40.00 to 50.00	40.00 to 50.00	35.00 to 40.00	25.00 to 35.00
extra.....	25.00 to 30.00	30.00 to 40.00	25.00 to 35.00	15.00 to 20.00
No. 1.....	15.00 to 20.00	25.00 to 30.00	15.00 to 25.00	10.00 to 12.00
Lower grades.....	5.00 to 10.00	10.00 to 15.00	5.00 to 15.00	..... to 6.00
Bride and Maid, fan, and sp.	..... to 8.00	10.00 to 12.00	8.00 to 10.00	10.00 to 12.00
extra.....	5.00 to 6.00	7.00 to 8.00	6.00 to 8.00	8.00 to 10.00
No. 1 and Lower gr	3.00 to 4.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Liberty, fancy.....	..... to 8.00	10.00 to 12.00	10.00 to 12.00	..... to
Ordinary.....	4.00 to 5.00	5.00 to 8.00	4.00 to 5.00	..... to
Richmond, Fancy.....	..... to	8.00 to 10.00	10.00 to 12.00	15.00 to 20.00
Ordinary.....	..... to	4.00 to 7.00	5.00 to 10.00	6.00 to 10.00
Golden Gate, Fancy.....	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	8.00 to 10.00
Ordinary.....	3.00 to 4.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Chatenay, Fancy.....	..... to	8.00 to 10.00	8.00 to 10.00	10.00 to 12.00
Ordinary.....	..... to	4.00 to 8.00	4.00 to 8.00	4.00 to 6.00
CARNATIONS				
Fancy.....	3.00 to 4.00	3.00 to 4.00	2.50 to 3.00	3.00 to 4.00
Ordinary.....	1.00 to 2.00	1.00 to 2.00	1.25 to 1.50	1.50 to 2.00
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to 50.00	..... to .....	..... to
Lilies.....	12.50 to 15.00	10.00 to 14.00	10.00 to 13.00	12.50 to 15.00
Calas.....	1.00 to 12.50	..... to 8.00	8.00 to 10.00	1.00 to 12.00
Lily of the Valley.....	1.00 to 4.00	..... to 4.00	2.00 to 4.00	2.00 to 3.00
Violets.....	50 to 75	..... to 75	..... to 60	50 to 1.00
Tulips.....	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00	2.00 to 4.00
Roman Hyacinth Paper White Nar	2.00 to 4.00	3.00 to 4.00	2.50 to 3.00	1.00 to 1.00
Daffodils, Trumpets.....	2.00 to 4.00	3.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Freestanding.....	..... to .....	..... to 1.50	1.50 to 2.50	2.00 to 3.00
Mignonette.....	..... to	2.00 to 3.00	1.00 to 2.00	2.00 to 4.00
Adiantum Cuneatum.....	1.00 to 1.00	7.00 to 1.00	..... to 1.20	..... to
Crownatum.....	..... to .....	..... to	1.25 to 1.50	..... to 1.50
Smilax.....	12.50 to 15.00	10.00 to 15.00	15.00 to 20.00	12.50 to 15.00
Asparagus Plumosus, strings.....	40.00 to 50.00	25.00 to 50.00	40.00 to 50.00	30.00 to 50.00
" & Sprenger, bunches.....	..... to 35.00	2.00 to 30.00	25.00 to 5.00	2.00 to 4.00
Lilacs per 10 bunches.....	..... to .....	..... to .....	..... to	50.00 to 75.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

E. A. BEAVEN

Wholesale Dealer in

SOUTHERN WILD SMILAX

and Florists' Hardy Decorative Supplies.
New crop now ready in limited quantities.
EVERGREEN, ALA.

WHOLESALE

Fancy and Dagger Ferns, Galax and Leucothoe,
Bronze and Green Baled Sphagnum, and Green
Mosses Leaf Mold, Orchid and Azalea Peats, Fresh
Palm-leaf and Cycas Palm leaves, Wild Smilax
Boxwood, All Decorating Evergreens.

THE KERVAN CO.

Tel. 1519 Madison Sq.

20 West 27th St.
NEW YORK.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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AMPELOPSIS.

Ampelopsis Veitchii, 2 years transplanted, strong. By mail prepaid, \$6.00 per 100; 4 years, heavy, by express at your expense, \$12.00 per 100. Cash with order.
E. Ferrand & Son, Detroit, Mich.

ASPARAGUS.

Asparagus Plumosus nanus seedling plants ready for potting. Emerson C. McFadden, Short Hills, N. J., \$1.50 per 100, \$10.00 per 1000.

Asparagus Sprenger, 2 1/2-in., \$2.25 per 100. Otto Bourdy, Lowell, Mass.

Asparagus Plumosus Nanus seeds, \$2.25 per 1000, fresh picked. Albert Buckwell, Woodbridge, Fla.

ASPARAGUS ROOTS.

Forty thousand Barr, Mammoth 4-year-old roots, suitable for forcing at \$6 per 1000 or 5000 for \$25.00. Can ship at once. Write quick. Ground must be cleared. W. F. Allen, Salisbury, Md.

ASTERS.

James Vick's Sons, Rochester, N. Y.

J. H. Lock, Toronto, Can.

Aster Kate Lock.

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Gloire De Lorraine,

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Begonia Gloire De Lorraine.

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Yokohama Nurseries, 31 Barclay St., New York.

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26 S. Market St., Boston.

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Fancy leaved Caladiums, 50c. per doz.

Albert Buckwell, Woodbridge, Fla.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.

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CANNAS.

W. F. Kasting, 383-87 Ellicott St., Buffalo, N. Y.

Cannas, 15 varieties. Also Dahlias and Gladioli. Write for price list. O. B. Stevens, Shenandoah, Iowa.

CARNATIONS.

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Carnation, Robert Craig.

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CHRYSANTHEMUM STOCK PLANTS.

Chrysanthemum cuttings. Monrovia, Glory of Pacific, Polly Rose, Robinson, Philadelphia, White Bonaffon, Fitzwygram, G. S. Kalb, Robt. Halliday, John Shrimpton, May Bonaffon, Col. Appleton, Niveus, Bride, White Ivory, Cullingfordil, Arline, Maud Dean, Mutual Friend, W. Lincoln, Jerome Jones, J. G. Jones, Timothy Eaton and Mme. Perrin at \$1.50 per 100; \$12.50 per 1000.

Opah, Princess, E. Bonnefond, Alliance, Fred Lemon, Mrs. Brice, La Tuslon, Merstham Yellow, Mildred Ware, Wm. Duckham, Amorita, Dr. Enguehard, Mrs. T. W. Pockett, Nellie Pockett, Ben Wells, F. S. Vallis, Mrs. Thirkell at \$2.50 per 100; \$20.00 per 1000.

W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

COLEUS.

H. N. Eaton, So. Sudbury, Mass., Rooted

Cuttings.

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Rooted Cuttings.

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CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.

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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN PLANTS.

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DAHLIAS.

David Herbert & Son, Atco, N. J.

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A. T. Boddington, New York.

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Dahlias, fine, strong bulbs; also cannas and gladioli. Write for price list. O. B. Stevens, Shenandoah, Iowa.

Field grown, mixed varieties, whole roots

\$4.00 per 100. W. F. Allen, Salisbury, Md.

Palisades Nurseries, Sparkill, N. Y.

Flowering Plants.

Dahlias, Mrs. Winters still the leading white. My sales of this variety for the past three years were phenomenal; also Ingeborg Egeland, the new scarlet cactus. Do not fail to list these two novelties. Also fine stock of leading novelties and standard varieties. Catalogue of dahlias, peonies, hollyhocks, bleeding heart and hardy plants, now ready. W. W. Wilmore, Dahlia Specialist, Box 382, Denver, Colo.

DAISIES.

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ELECTRIC CIRCULATOR.

Holly-Castle Co., Boston.

FANCY ROCKY FORD

Cantaloupe seed, wholesale per 100 lbs.
\$20.00. W. F. Allen, Salisbury, Md.

FERNS.

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N. Y.
Nephrolepis Piersoni Elegantisima.
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Ferns for jardinières, good varieties, \$3.00
per 100, cash. J. H. Flesser, 415 Summit
Avenue, West Hoboken, N. J.

Ferns, Japanese or Mikado fern ball, new
importation now in and ready for shipment,
in dormant condition; 8 in. in diameter,
\$2.25 per doz., \$18 per 100 f. o. b. Cros-
man Bros., Rochester, N. Y.

FERTILIZERS.

Wm. Elliott & Sons, 201 Fulton St., N. Y.
Sterilized Sheep Manure.
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FEVERFEW.

Feverfew, \$1.00 per \$100, \$8.00 per 1000.
Prepaid. S. W. Pike, St. Charles, Ill.

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Arthur Cowee, Meadowvale Farm, Berlin,
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Gladiolus, 3 A No. 1 strains, extra fine;
also cannas and dahlias. Write for price
list. O. B. Stevens, Shenandoah, Iowa.

GLASS.

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Glass, French and American "White
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Anchor Greenhouse Hose is the best for
Florists.

Mineralized Rubber Co., New York.

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Yokohama Nurseries, 31 Barclay St.,
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MOONVINES.

Moonvines, 2 1-2 in., strong plants, \$3.00
per 100. John Heidenreich, Indianapolis,
Ind.

MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
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NASTURTIUMS.

Double Nasturtiums, 2-in., \$1.00 per 100.
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J. H. Trév, New Rochelle, N. Y.
Koster Blue Spruce.
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2,000 Norway Maples transplanted,
straight and fine stock, 2 to 5 feet. Cheap
for cash, or will exchange for some kinds
of stock. O. C. Bailey, Newburyport, Mass.

Elizabeth Nursery Co., Elizabeth, N. J.

Ellwanger & Barry, Rochester, N. Y.

Johns Roehrs Company, Rutherford, N. J.
Bay Trees.

The Norwich Nurseries, Norwich, Conn.
Ornamental Trees.

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PANSIES.

- Imperial Seed & Plant Co., Grange, Baltimore, Md.
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PATENTS.

- Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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Palms, Kentia Belmoreana.
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- C. Elsele, 11th and Roy Sts., Philadelphia.
For page see List of Advertisers.

PLANT STAKES.

- H. F. Michell Co., Philadelphia.
For page see List of Advertisers.

PLANTS HARDY.

- M. H. Walsh, Woods Hole, Mass.
For page see List of Advertisers.

PRIMULA OBCONICA.

- O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

POT HANGERS.

- Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

RETAIL FLORISTS.

- Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.
- Alex. McConnell, New York.
For page see List of Advertisers.
- Thomas Young, Jr., New York.
For page see List of Advertisers.
- Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.
- J. Breitmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.
- Young & Nugent, New York.
For page see List of Advertisers.
- George H. Cooke, Washington, D. C.
For page see List of Advertisers.
- Samuel Murray, 1017 Broadway, Kansas City, Mo.
For page see List of Advertisers.
- Gude Bros. Co., 1214 F St., Washington, D. C.
For page see List of Advertisers.
- Eyres, 11 N. Pearl St., Albany, N. Y.
For page see List of Advertisers.

ROSES.

- M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
For page see List of Advertisers.
- E. H. Pye, Upper Nyack, N. Y.
For page see List of Advertisers.
- F. H. Kramer, Washington, D. C.
Queen Beatrix.
For page see List of Advertisers.
- Robert Scott & Son, Sharon Hill, Pa.
Grafted Roses.
For page see List of Advertisers.

ROSES—Continued.

- Rose Hill Nurseries, New Rochelle, N. Y.
Roses, Killarney.
For page see List of Advertisers.
- A. T. Boddington, New York.
For page see List of Advertisers.
- Montrose Greenhouses, Montrose, Mass.
Grafted Roses.
For page see List of Advertisers.
- H. T. Jones, Union Co. Nurseries, Elizabethtown, N. J.
American Grown Roses.
For page see List of Advertisers.
- L. J. Reuter, Philadelphia, Pa.
For page see List of Advertisers.
- Benjamin Connell, West Grove, Pa.
Baby Rambler.
Leedle Floral Co., Springfield, O.
For page see List of Advertisers.
- H. A. Dreer, Philadelphia.
Roses for Outdoor Planting.
- Ellwanger & Barry, Rochester, N. Y.
Rose Frau Karl Druschki.
- Minneapolis Floral Co., Minneapolis, Minn.
Rose Miss Kate Moulton.
- Waban Rose Conservatories, Natick, Mass.
Rose Wellesley.
- Palisades Nurseries, Sparkill, N. Y.
Rambler Roses Sparkill.
- Creeping Roses, 2 years, \$6.00 per 100.
The Elizabeth Nursery Co., Elizabeth, N. J.

SEEDS.

- W. W. Rawson & Co., 12 and 13 Faneuil Hall Sq., Boston.
For page see List of Advertisers.
- Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.
- Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.
- W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.
- J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.
- H. F. Michell Co., 1018 Market St., Philadelphia, Pa.
For page see List of Advertisers.
- R. & J. Farquhar & Co., Boston.
For page see List of Advertisers.
- Weeber & Don, 114 Chambers St., N. Y.
Vegetable and Flower Seeds.
For page see List of Advertisers.
- H. A. Dreer, Philadelphia.
Flower Seeds.
For page see List of Advertisers.
- Wm. Elliott & Sons, 201 Fulton St., N. Y.
For page see List of Advertisers.
- Schlegel & Fottler Co., 26 S. Market St., Boston.
For page see List of Advertisers.
- Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.
Seeds, 100,000 fresh greenhouse grown Asparagus plumosus seed, \$2.50 per 1,000 on large lots. Henry Young, Ada, O.

SEED CASES—MICE PROOF.

- Heller & Co., Montclair, N. J.
For page see List of Advertisers.

SOUTHERN WILD SMILAX.

- H. M. Robinson & Co., 8 & 11 Province St., Boston.
For page see List of Advertisers.
- E. A. Beaven, Evergreen, Ala.
For page see List of Advertisers.

SPHAGNUM; CEDAR POLES.

- H. R. Akers, Chatsworth, N. J.
For page see List of Advertisers.

TOMATO AND PLANT SUPPORTS.

- Igoe Bros., 226 North 9th St., Brooklyn, N. Y.
For page see List of Advertisers.

VENTILATING APPARATUS.

- Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.
- Pierson U-Bar Co., 1 Madison Square, New York.
For page see List of Advertisers.
- Hitchings & Co., 1170 Broadway, New York.
For page see List of Advertisers.
- John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
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VENTILATING APPARATUS—Continued.

- Weathered Co., 46 and 48 Marion St., New York.
For page see List of Advertisers.
- Foley Mfg. Co., 471 W. 22nd St., Chicago.
For page see List of Advertisers.
- The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave., Chicago.

VERBENAS.

- The new verbenas, Ellen Wilmott, the finest cerise pink in existence, rooted cuttings, \$2.50 100. Cash. W. W. Stertzing, 7280 Old Manchester, St. Louis, Mo.

VINCAS.

- 35,000 myrtle, Vinca minor, \$10.00 to \$50.00 per 1000. S. J. Galloway, Eaton, Ohio.

VINCA MINOR.

- Eastern Nurseries, Jamaica Plain, Mass.
For page see List of Advertisers.

WIREWORK.

- Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

MISCELLANEOUS.

- Floral photographs. Foley's, 226-228 1-2 Bowery, New York.

WHOLESALE FLORISTS.**Boston.**

- For page see List of Advertisers.
- N. F. McCarthy & Co., 84 Hawley St., Boston.
- George A. Sutherland Co., 34 Hawley St., Boston.
- Welch Bros., 15 Province St., Boston.

Buffalo.

- For page see List of Advertisers.
- Wm. F. Kastling, 383-87 Ellicott St., Buffalo, N. Y.

Chicago.

- For page see List of Advertisers.
- J. A. Budlong, 37 Randolph St., Chicago.
- E. H. Hunt, 76-78 Wabash Ave., Chicago.
- Chas. W. McKellar, 51 Wabash Ave., Chicago.
- Peter Reinberg, 51 Wabash Ave., Chicago.
- A. L. Randall Co., 21 Randolph St., Chicago.
- Wietor Bros., 51 Wabash Ave., Chicago.
- Vaughan & Sperry, 60 Wabash Ave., Chicago.
- E. F. Wintererson Co., 45, 47, 49 Wabash Ave., Chicago.

Cincinnati.

- Ohio Cut Flower Co., 129 E. 3d St.
- Wm. Murphy, 128 E. 3d St.

Detroit.

- For page see List of Advertisers.
- Michigan Cut Flower Exchange, 38 & 40 Miami Av. Wm. Dilger, mgr.

New York.

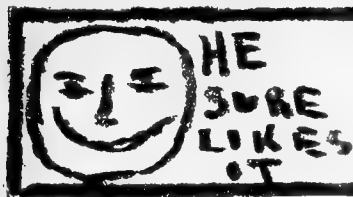
- For page see List of Advertisers.
- Bonnot Bros., 55-57 West 26th St., New York.
- J. S. Fenrich, 110 W. 28th St., New York.
- Ford Bros., 48 West 28th St., New York.
- H. E. Froment, 57 W. 28th St., New York.
- Alex. J. Guttman, 43 West 28th St., New York.
- E. C. Horan, 55 West 28th St., New York.
- Philip F. Kessler, 55 W. 26th St., New York.
- Julius Lang, 53 West 30th St., New York.
- A. H. Langjahr, 55 W. 28th St., New York.
- James McManus, 50 W. 30th St., New York.
- Chas. Millang, 50 West 29th St., New York.
- Frank Millang, 55-57 W. 26th St., New York.
- A. Moltz, 55-57 W. 26th St., New York.
- John J. Perkins, 115 W. 30th St., New York.
- John I. Raynor, 49 W. 28th St., New York.
- W. F. Sheridan, 39 W. 28th St., New York.
- Traendly & Schenck, 44 W. 28th St., N. Y.
- John Young, 51 W. 28th St., New York.

Philadelphia.

- For page see List of Advertisers.
- W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
- Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
- S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.

Pittsburg.

- For page see List of Advertisers.
- Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
- J. B. Murdoch & Co., 545 Liberty St., Pittsburg.



My continued orders for the FUMIGATING KIND TOBACCO POWDER show that I prefer it to any of the other ways; it's, by far, the cheapest and best.

Why not ask for a free five pound trial sample, it's convincing, it only costs you the express charge. It's no tangled thing, hundreds write of it like Mr. H. Mayer. Our booklet tells how to fumigate a house 100x25 feet with it for fifteen cents. THE H. A. STOOTHOFF COMPANY, 119 West Street, New York City, N. Y.

New Offers in This Issue.

ASTER, KATE LOCK.

J. H. Lock, Toronto, Can.
For page see List of Advertisers.

AUSTRIAN AND SCOTCH PINES.

The F. E. Conine Nursery Co., Stratford, Conn.
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DRACAENA INDIVISA.

E. & C. Woodman, Danvers, Mass.
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EASTER FLOWERS AND PLANTS.

Hicks & Crawbuck, 76 and 78 Court St., Brooklyn, N. Y.
For page see List of Advertisers.

EASTER LILIES.

Cohanzie Carnation Co., New London, Conn.
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EASTER PLANTS.

Robert Craig Co., Philadelphia.
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EASTER PLANTS.

Godfrey Aschmann, Philadelphia.
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FOLDING BOXES.

Edwards Folding Box Co., Philadelphia.
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HEATING APPARATUS.

W. H. Lutton, West Side Av. Sta., Jersey City, N. J.
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NOVELTIES IN ROSES AND CHRYS-

ANTHEMUMS.

The E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

ROSES, CANNAS, SHRUBS, PERENNIALS, ETC.

Dingee & Conrad Co., West Grove, Pa.
For page see List of Advertisers.

ROSE, QUEEN BEATRICE.

F. H. Kramer, Washington, D. C.
For page see List of Advertisers.

THE GLASS SITUATION.

Within the past week developments in the window glass market both here and abroad have tended to strengthen the already firm situation and it is now very apparent that there will be a shortage in the supply of a number of the leading sizes, including those most frequently used in greenhouse construction. Prices made by the domestic manufacturers are now something like 12 1-2 per cent higher than they were at the beginning of the year and further advances are being made daily as the greater part of the product of the country is already sold up and the manufacturer who has any glass for sale seems able to command his own price for it.

In the foreign market reports of labor difficulties present and impending have made manufacturers reluctant to enter on new engagements and it is generally expected production in Belgium, which is the principal exporting market, will be very much curtailed after May 1st when a general strike has been planned by the glass workers.

For a prospective buyer of window glass it looks as though it would be good judgment to buy now any glass that may be needed before late fall as it appears that if orders are held back

both price and time of delivery are going to be uncertain.

Referring to the report of the state zoologist of Pennsylvania in connection with the lime, sulphur salt remedy for San Jose scale, it is interesting to note that the remedy offered by Benjamin Hammond under the name of Horicum is practically the same thing prepared and put up in convenient form for ready use.

WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order.

TO LEASE FOR A TERM OF YEARS my greenhouses consisting of about eighteen thousand feet of glass, all Hitchings & Co. boilers, and four of the houses are also Hitchings & Co.'s construction; city water on premises, two trolley lines one block, and railroad station two blocks from the premises; three miles from 34th St. ferry. Geographically they are in the centre of Greater New York. If you want a place this is a rare chance, so do not write but come see it, possession June 1st, 1906. Apply to Alex S. Burns, 128 4th St., Woodside, Queens Borough, N. Y.

FOR SALE—Two greenhouses, 23x95, 20x68, with hot water heating apparatus and well stocked with Carnations and Violets. Will sell as it is with dwelling house attached and 17,000 feet of land, or to be taken down and removed. Address 703 Chestnut St., Waban, Mass.

One experienced fern grower; one experienced man in stove and greenhouse plants; and one first class herbaceous man. Good wages will be paid to first class, capable man, and steady position. Address S. R., care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED by a young Protestant married man, as Gardener, or Foreman on a private estate. Life experience, references warranted as to character and ability. F. care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED.—I would like to place my son, age 19 years, in a good private or commercial establishment. He has some knowledge of the business. Thomas Heskey, gardener to Lt. Gov. E. S. Draper, Hopedale, Mass.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and inure better service. Personal attention guaranteed. Twenty-five years' active practice. SPECIALTY: "Working on the Failure of Others."

SIGGERS & SIGGERS

PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

HORICUM

KILLS SAN JOSE SCALE

Made by HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.
SOLD BY SEED DEALERS OF AMERICA

NIKOTEEN APHIS PUNK
THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
WIDELY IMITATED BUT NEVER EQUALED
UNIFORM AND ALWAYS EFFECTIVE
DON'T ACCEPT INFERIOR IMITATIONS
PRICE 60¢ PER BOX OF 12 SHEETS
\$6.00 PER CASE OF TWELVE BOXES.
NICOTINE MFG. CO. ST. LOUIS, MO.

Garman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse.
Nonpoisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down mildew. \$1.50 per gallon. Also in quarts, half gallons and in bulk. Send for circulars.

PERFECTION CHEMICAL CO.,
Flushing, N. Y.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 2 1/2 " " " 5.25	60 8 " " " 3.00
1500 3 " " " 6.00	HAND MADE
1000 3 " " " 5.00	48 9 in. pots in crate \$4.60
800 3 1/2 " " " 5.80	24 11 " " " 4.80
500 4 " " " 4.50	24 12 " " " 4.80
320 5 " " " 4.51	12 14 " " " 4.80
144 6 " " " 4.16	6 16 " " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money
W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.

Holds Glass Firmly
See the Point
PEERLESS
Glazing Points are the best.
No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.

BY SLIPPING A

PEERLESS GLASS REPAIR CLAMP

Over a cracked glass you protect your stock, save coal and glass. Do it now before the high winds play havoc with your roofs. \$1.00 will repair 150 lights. Ask your supply man, or
A. KLOKNER, Wauwatosa, Wis.

Endorsed by about 400 prominent florists.

Ventilating a Greenhouse



is dependent on the kind of apparatus you use, whether its ease of operation or freedom from repairs. The "Hitchings & Co.'s" is free from cables, chains or short lived springs. A compact, easy running, inexpensive device.

HITCHINGS & COMPANY,
Greenhouse Designers and Builders,
Manufacturers of Heating and Ventilating Apparatus
1170 BROADWAY - - NEW YORK

HEATING HEATING

Let me furnish facts why you should give me your Heating Work.
I have convinced others. Why not you?

Write for Prices on **HEATING SUPPLIES** of all Kinds

WM. H. LUTTON

West Side Ave. Station, **JERSEY CITY, N. J.**

STANDARD PLATE GLASS CO.

Manufacturers, Importers and Jobbers —
AMERICAN AND FRENCH GREENHOUSE GLASS
26-30 Sudbury Street
61-63 Portland Street
BOSTON, MASS.

FOR SALE

GARDEN HOSE New $\frac{3}{4}$ -in., guaranteed 100 lbs. pressure, $7\frac{1}{2}$ cts. per ft. $\frac{1}{2}$ -in. not guaranteed, $4\frac{1}{4}$ cts. per ft.

HOT-BED SASH New Cypress, 1 ft. x 6 ft., from 75 cts. up, glazed, complete, from \$1.60 up. Second-hand, in good condition, all glass in, at \$1.25 and \$1.00 each

PIPE Good serviceable second-hand, with Threads 2-in., 7 cts.; $1\frac{1}{2}$ in., 5 $\frac{1}{2}$ cts.; $1\frac{3}{4}$ -in., 4 cts.; 1-in., 3 cts.; $2\frac{1}{2}$ in., 10 cts.; 3-in. 14 cts.; 4-in., 19 cts. New 2 in. Standard, full lengths, with couplings, 8 $\frac{3}{4}$ cts. ft. Old and new fittings and valves.

GLASS New American 10x12 single \$1.75, per box. 12x12 single \$1.00, per box. 10x12, 12x12, 10x15, double \$2.05, per box. 12x14, 12x20, 14x14, 14x20, double, \$2.85, per box. 12x14, 16x18, \$3.10. 16x24, double, \$3.01 per box.

Get Our Prices On
BOILERS, PUMPS, STILLSON WRENCHES, STOCKS AND DIES, PIPE CUTTERS, PIPE VISES, CYPRESS-MATERIAL, ETC.

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Avenue. BROOKLYN, N. Y.

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL.

John G. Esler, Saddle River, N. J.

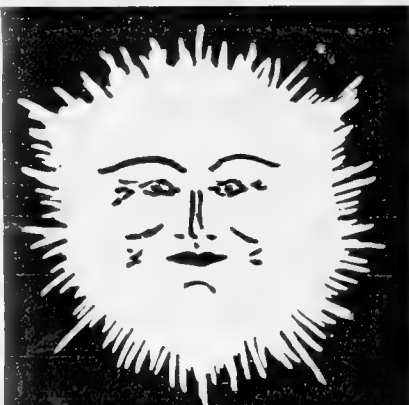


BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.



SUN DRIED CYPRESS GREENHOUSE MATERIAL

IS THE BEST.

WRITE

FOLEY MFG. CO.

471 W. 22ND ST.

- CHICAGO -

FOR FREE CATALOGUE

VENTILATING

APPARATUS,

FITTINGS

HOT-BED SASH.

WE MAKE SKETCHES

AND ESTIMATES.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

Greenhouse Material

Ask for our Special Catalogue No. 111 describing
Boiler Tubes, Boilers, Tubes, as Lumber and Sup-
plies of every kind from the Fifty Million Dollar St.
Louis World's Fair.

CHICAGO HOUSE WRECKING CO.
35th and Iron Sts. CHICAGO

Toadstools vs. Mushrooms

Toadstools resemble mushrooms very closely. Experts can easily distinguish the difference between them.

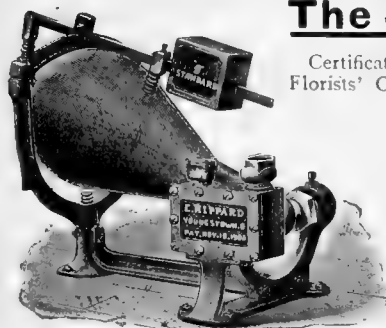
One way to tell is by eating them—but this is rather risky.

It is the same way with greenhouse material—it makes a difference where you get it and the kind you buy.

Better buy your material from those who have experience.

Let us demonstrate to you why it will be to your interest to use our material. If interested write us.

JOHN C. MONINGER CO.—Chicago
117 E. BLACKHAWK STREET



The Standard Steam Trap

Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

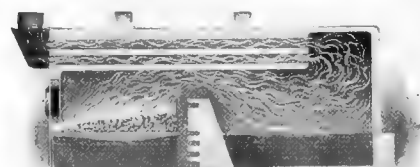
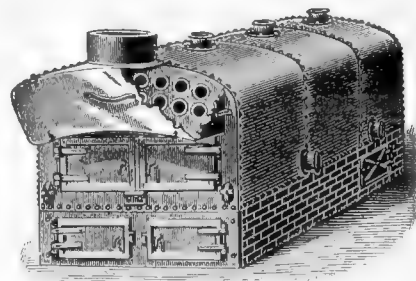
E. HIPPARD, Youngstown, Ohio

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

35 Erie Street, CHICAGO.



Boilers made of the best material, shell, firebox sheets and heads of steel water space all around front, sides and back. Write for information.

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE: 111 FIFTH AVE. 74 FRANKLIN ST. BOSTON

SEND FOR CATALOGUE OF
**SCOLLY HOT WATER
and STEAM BOILERS**

JOHN A. SCOLLY

73 and 75 Myrtle Avenue

BOROUGH OF BROOKLYN, N. Y. CITY

N. TONAWANDA,
N. Y.

TORONTO,
ONT.

**KING
CONSTRUCTION CO.**
GREENHOUSE CONSTRUCTION AND
EQUIPMENT
WRITE FOR CATALOGUE AND PRICES

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special "PECKY CYPRESS" Position to Furnish

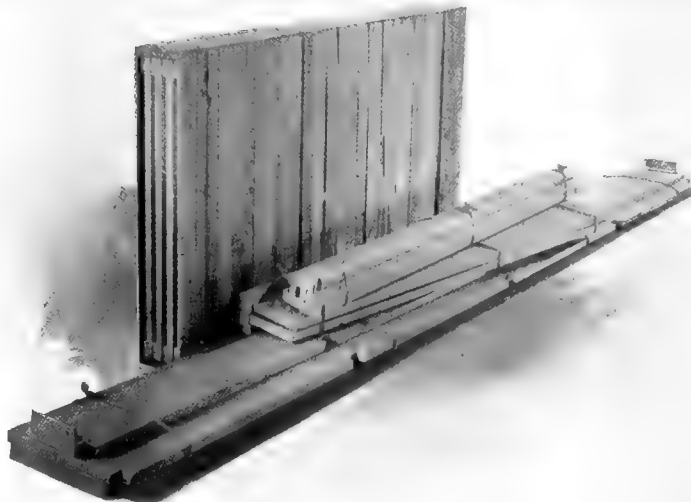
Everything in PINE and HEMLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

FOR SALE Six Large Greenhouses

In a city of 25,000 inhabitants, 35 miles from Boston, a range of six large Greenhouses, propagating house and office and boiler room all of modern construction, heated by a new 90 H. P. steam boiler. seven acres of fine land with residence and stable. Houses stocked with 15,000 carnations and 10,000 bedding plants. 25,000 young carnations ready to plant out. Business wholesale and retail consumes all that can be grown. Address, N. ASH, care of Horticulture.



This is The Thorough Way

We pack for shipment our frames and sash. Every precaution taken to prevent breakage of glass. We don't know of a sash that is made as honestly, as strongly. They have all the strong points of perfect joints, steel dowel pins and the round iron brace and tie d.

The frames are made of cypress same selected quality as the sash. Any one can erect them, it is only a matter of bolting up the angle iron at the corners, and dropping the rafter rail in place. Those angle irons are not only a matter of convenience, but make a perfectly rigid joint—a frame that will outlast any two ordinary ones and our gardener friends have proven it.

Lord and Burnham Co.

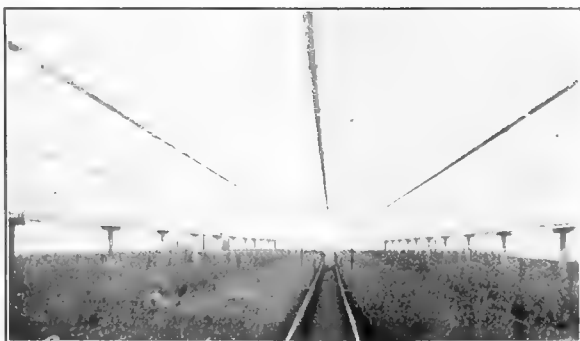
GREENHOUSE DESIGNERS and MANUFACTURERS

1133 Broadway, cor. 26th St., N. Y.

Boston Branch: 819 Tremont Building.

Two more things about the sash you ought to know; they weigh 40 lbs. each, which makes them especially light to handle; we make a freight allowance on orders of ten or more.

Interior view of three connected houses, each 24 ft. wide — Our Standard Iron Construction.



Erected complete and heated with the Weathered Sectional Boiler for Chatterton Warburton, Fall River, Mass.

Write him. Send for Catalog.

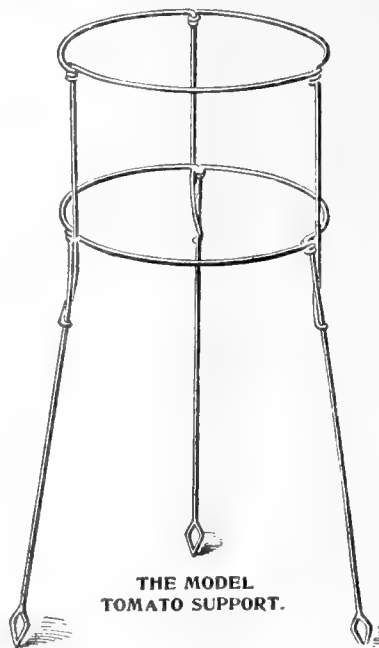
Weathered Company
46 MARION ST., NEW YORK

The Only Perfect Tomato and Plant Support

Made of Heavy Galvanized Wire

\$1.75 per Dozen

\$12.00 per 100



THE MODEL
TOMATO SUPPORT.

Height complete	34 inches
" of bottom section	24 "
" " top "	12 "
Diameter of circle	14 "

Manufactured by **IGOE BROS.** 226 North 9th St. Brooklyn, N. Y.

HORTICULTURE

Vol. III. APRIL 7, 1906 No. 14



LIBRARY
NEW YORK
BOTANICAL
GARDEN

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

APR 9 - 1906

Thomas Young, Jr.

will deliver by special messenger

Easter Flowers, Plants, Baskets, Etc.,

in New York City and vicinity,

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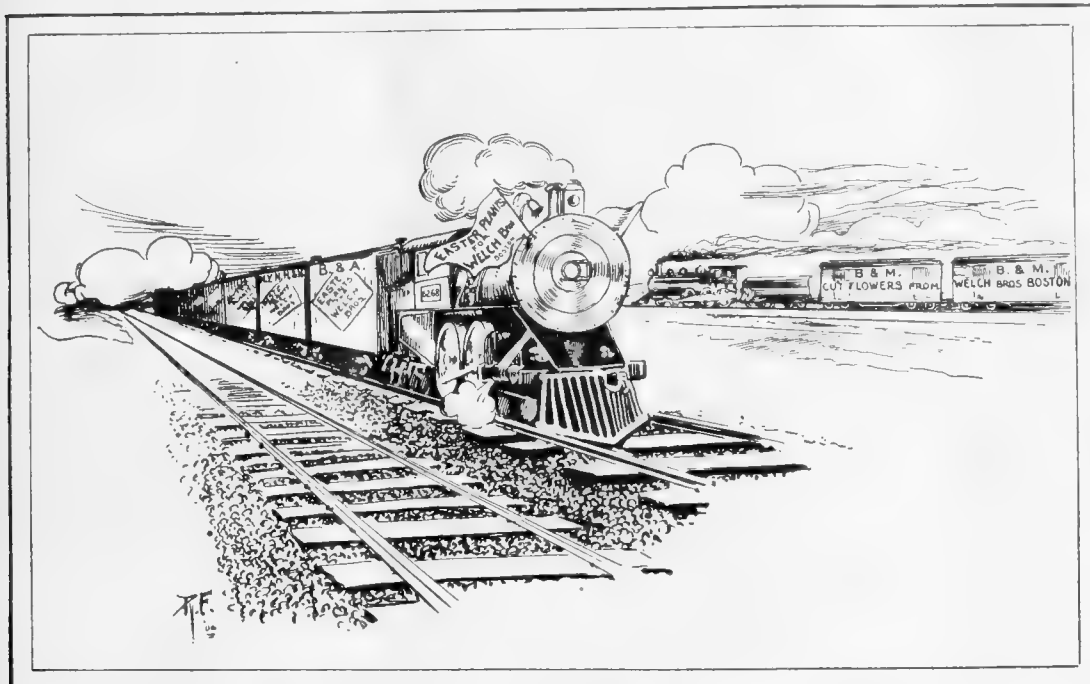
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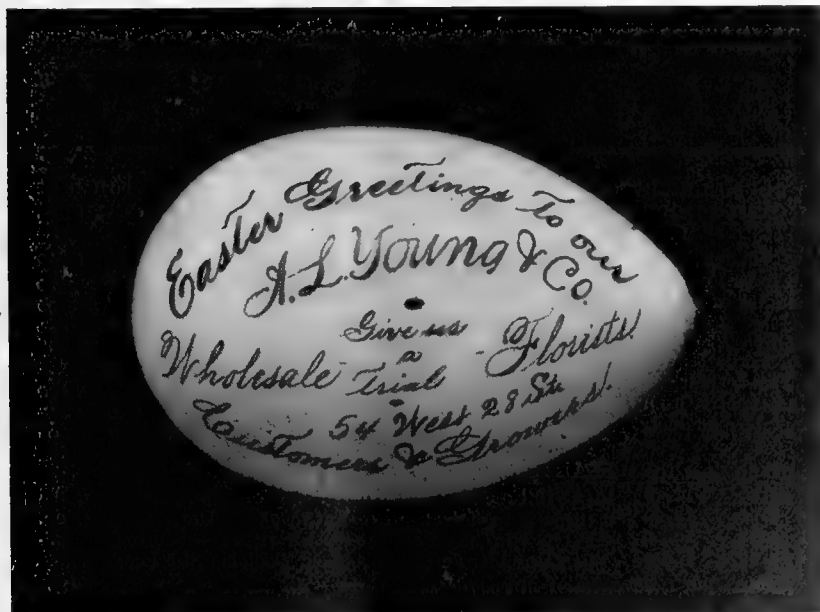
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HORTICULTURE

VOL III

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Supplement with this Issue Gladiolus King of Gladioli

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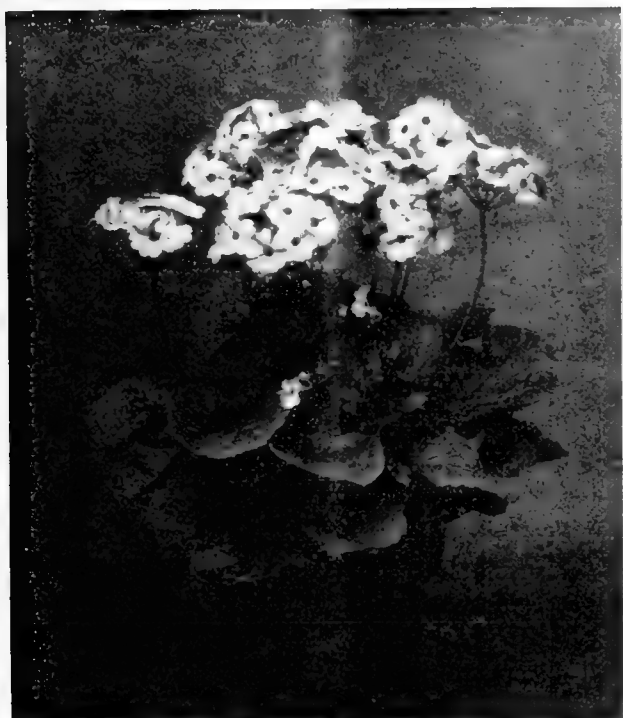
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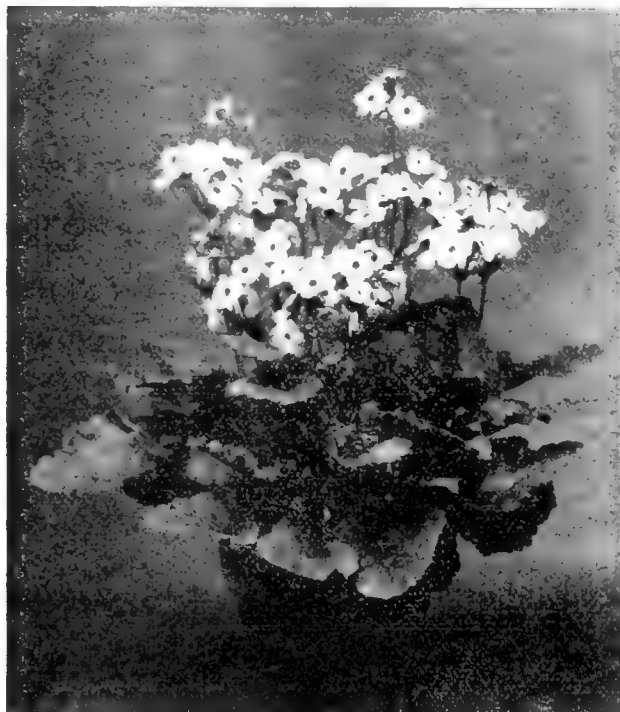
ALL KINDS.

FILL LATE ORDERS.

Primula obconica grandiflora



CARMINEA



ROSEA

The new hybridized giant flowered obconica primroses are among the most attractive flowering plants for the market florist, and doubtless they will become widely known in the near future. Their abundant flowering habit, strong and willing growth during fully six months and easy handling, gives them a superiority far ahead of the old and well known Chinese Primula sinensis; in fact it is already the rival and in a few more years when better known, it will be the principal primrose grown for the Christmas and Easter wholesale trade.

Primula obconica is a native of Central China, and was introduced in 1882. Since that time many crossings have been made by thorough florists. In the beginning it seemed not to take any pollenization, until in 1898, when its development came out in crossing it with the Chinese primrose. Well known specialists here and abroad, especially in Germany, have worked with great devotion to improve this new hybrid, and they thus far succeeded in obtaining five distinct colors and two types, which all come true from seed.

To grow obconica primroses from seed is much easier than with the old Chinese primrose. The best time to sow seed is from February until the end of May, and a mixture of leaf mould with sharp sand will give the required results. Sow the seeds carefully in low pans or boxes, with plenty of drainage; sow very thinly and evenly, and do not cover them at all. Place the same in a proportionate moisture of about sixty degrees, and protect against full sunlight, also cover the pans or boxes with glass. After the seeds germinate, take the glass off and cover again only during night time,

which is to protect the little seedlings from being eaten up by snails. The seeds require about two or three weeks to germinate. After the little seedlings have been twice transplanted in a mixture of light sandy soil, free from any fresh manure substances, and having four or more leaves, they should be planted in two or two-and-a-half-inch pots. After they have become well established and well rooted, again repot in four-inch pots and continuously repot until they are in six or seven, even some of them in eight-inch pots; or more advisable are the so-called seven or eight-inch azalea pots.

To keep obconica primroses in a healthy and well shaped growth during the summer, doubtless they require plenty of cool air and even moisture, also careful watering; therefore it is preferable during the summer months to hold them in a cold frame, not deeper than about twelve to eighteen inches, plunged in soil or ashes, covered with shadders made from small laths, and especially protected against full sunshine. As soon as the cold nights start bring them into the lightest place in your greenhouse and let the temperature be not higher than sixty degrees nor lower than forty degrees in the night time. During the winter months careful attention should be paid to the watering.

C. J. Stanger

Garden Culture of Sweet Peas.

Twenty-five years ago sweet peas were very little cultivated, as compared with the enormous amount of seed that will be planted this coming season. In fact, I think it would be quite conservative to say that fifty pounds of seed is planted today where one pound was then. In those days our list of varieties was confined to a comparatively few shades of color; we had white, purple, scarlet, pink, and quite a few combinations of colors; such as scarlet and white, and scarlet-striped. Many of you will remember the old names; there were Painted Lady, Invincible Scarlet, Captain Clark, and a few others. Before me as I write, I have a prominent seedsman's catalogue of the year 1885; and three lines are devoted to sweet peas—describing white, scarlet, and mixed. When, twenty years ago the coming summer (August 14, 1886), the writer was able to make an exhibit of six distinct colors of sweet peas before the Massachusetts Horticultural Society at Boston, he thought that he had a very nice collection of sweet peas. Today the named varieties of this flower are numbered by hundreds. But it is not alone this remarkable increase of named kinds that has given the sweet pea the truly wonderful position it now holds amongst annual flowers, but also the simply marvelous advance that has been made in the size of the individual flowers, and the increased number of flowers on one stem. The sweet pea of today in its best form is something so exquisitely beautiful as to be beyond the power of pen to describe. After years of experimenting, the method of cultivation, that taken one season with another, gives me the most satisfactory flowers is as follows: The earlier sweet peas are sown in the spring the more thriftily the vines will grow, and the larger will be the flowers gathered from them. Just as soon as the soil is dry and mellowed sufficiently to receive the seed, it should be sown. The seed should be planted in rows, and covered at least eight inches deep. This is done as follows: Having prepared the ground and made the rows the desired depth, we may drop the seed and draw into the row soil enough to cover the seed two inches deep; as soon as the young plants appear through this covering, draw into the row two inches more soil, and so on until the trench has been filled up even with the surface of the ground. From the time the seed is sown until the young plants have started to run upon whatever supports are provided, the greatest care must be taken that the soil, at any stage, does not cake on the surface—keep the soil loose all the time for satisfactory results. Sweet peas must be bushed just as soon as well up. Use birch brush or wire poultry netting. Whatever the vines are trained upon must be very firmly secured in position, so that the vines when fully grown, being very heavy, will not be blown down. In nine seasons out of ten, the secret of success with sweet peas is to “plant them very early, and plant them very deep,” as above explained. Be most liberal in sowing the seed; sweet peas always do much better when sown thickly; put a pound of seed in not exceeding sixty feet of row. One last word, and I am done. Commence to gather the blooms from the moment the vines show color, and gather every fully opened flower after that daily. Do not allow a single bloom to wither on the vines, as when seed pods begin to form your sweet peas gradually cease blooming.

M. B. Fayson

The Eel Worm Question

Editor HORTICULTURE:—I have read in your issue of March 17 some notes by R. L. Adams on a subject that is very dear to the hearts of many rose growers (that “dear,” Mr. Editor, is a little joke of mine and I hope that you will not blue pencil it). The story of the life history of nematodes as there given is very interesting and instructive, and I am sure the treatment of a scientific subject in such a readable manner is always appreciated by your subscribers.

The point, however, to which I desire to call special attention is that, “The problem of control (of nematodes) is not difficult.” Well, well, this certainly is doubly welcome news to rose growers who have struggled for years to combat the ravages of this miserable little pest, which we are told has now been definitely located as an animal, although there are times when we tillers of the soil have been prone to class it with those infernal demons which have no physical being.

Can you not induce Mr. Adams to give us poor unscientific mortals who are thirsting for knowledge, a little more definite information on this subject? He has a sure method to “fix” eel worms “with green houses that are idle in the summer.” We are out of that cinch, however, as rose houses in this vicinity are generally pretty busy at that time of the year.

“Freezing will destroy large numbers.” That is good. We are able to take advantage of this while the soil is still in the field, but as a rule, the “large numbers” do not appear until they have multiplied in the roots, and as most of the forcing roses are not hardy under glass, we must be content with the execution we did in the field.

“The most practical method is to sterilize the soil.” Well, possible for cucumbers, but certainly not for roses. Give us a good rich, mellow loam that has not been used for roses and we will dispense with the sterilizing process. Suppose, however, we unfortunately get this sterilizing bee in our bonnets. Sterilize our sand for cuttings, sterilize the pots, sterilize the soil for potting, sterilize the soil for planting, sterilize the manure for top dressing, and finally sterilize all water before it is allowed to touch the soil. Does this seem the most practical method? Yet we must carry it out in full if we would annihilate the pest completely.

“Liming the soil . . . is helpful.” Personally, I have great faith in liming, but still, Dr. Stone, the best authority on nematodes, says that lime does not kill them. Nevertheless the practical rose grower knows that liming is helpful and up to the present time it is, at least to some of us, the “most practical method.”

“Mustard can be sown and when plentifully covered with galls pulled up and burned.” Now isn't that a lovely fairy tale? We sow mustard, and, as Mr. Adams says, the eel worms “enter and multiply.” After they have multiplied freely and grown good and fat we pull up the roots; some of them will come up, certainly not all. What becomes of those that are left? We have pulled up the original animals but have left their children, and perhaps, their children's children.

Verily “the problem of control is not difficult,” at least, with a facile pen and a copious supply of ink.

Alex. Montgomery, Jr.

Cypripedium caudatum

Cypripediums galore, seedlings by thousands, improvements on the old varieties in many cases, but occasionally we are charmed at the sight of an old friend. Such is *Cypripedium caudatum*, one of the most beautiful and interesting species, but though introduced in 1847 it is never seen in quantity. Here and there a plant, but always admired when in flower, its odd and graceful form demanding more than a passing glance the most indifferent plant lovers will stop and admire its beauty, while others considerably more valuable will be passed unnoticed. It delights in a slightly warmer temperature than most varieties and the plant in the accompanying photograph has been doing splendidly in the same spot for several years, making several nice clean growths, having as neighbors *C. Brownii*, *C. cardinale*, *C. leucorrhodum*, *C. Dominicanum* and other *seienipediums*. It requires liberal watering when growing and should not be disturbed too often; when you find a certain place in the house which suits it, let it remain there. I find this true with many *cypripediums*. A few years ago *C. Lawrencianum* could not be coaxed to grow, until finally we placed them on the end of a bench near the door, and now they grow as if they felt at home.

C. caudatum is a choice variety and should be in every collection; it will always be a favorite.

Alfred J. Lawrence.

Phaius grandifolius

At the present time, March 24, we have some fine large clumps of *Phaius grandifolius* in bloom. These plants were collected by the writer in the mountains of Jamaica over a dozen years ago and blossom annually about this time. The plant is not a native of Jamaica but was introduced there many years ago and is naturalized in many parts of the island now.

I remember well my first introduction to this plant when collecting in the mountains along with an English missionary, Mr. Griffiths, who was a great lover of orchids, and knew the homes of most of the genera and species indigenous to the island. The *Phaius* grew most luxuriantly in a field which was once part of a sugar plantation. The soil of this neglected field was a strong, rich, yellow, porous loam. The plants were in full blossom at the time and their flowering stems attained a height of about four feet and a half, each stem carrying a great number of flowers. Although the flowers were not as showy or as bright as some other orchids, yet they were produced so plentifully and grew so luxuriantly amongst the ferns and grasses which made a fine setting for them that it was a sight that impressed itself very strongly on my memory and since that time I have an affectionate liking for this plant.

It is an evergreen terrestrial orchid which has been cultivated in gardens for over a hundred years. Since it was introduced into cultivation it has had many names, and some old gardeners still hold on to some of the old names. It is hard to give up an old name when it has been once thoroughly impressed on the memory. It was known at one time or another by the following names: *Phajus Tankervillei*, *Bletia Tankervillea*, *Limodorum Tankervillea* and *Pachne spectabilis*. This gives an excellent example of how difficult it is for gardeners to keep track of names when botanists change their minds so frequently or are careless in their work and place the plant in the wrong genus.

This *phaius* blooms during the late winter and early spring months and if kept, while in blossom, in not too hot a house its flowers will last in good condition for several weeks. It has one splendid quality which many orchids are deficient in, and that is its long and stout flower stems and although its flowers are not as showy as cattleyas yet they have a charm of their own. I am pleased that in many places they are becoming favorites and being sought after.

The flowers which are of a good size are produced in long erect racemes. The sepals and petals are white on the outer surface and of a chocolate brown within. The lip or labellum white at the apex and the throat yellow, veined with crimson. The flowers last a long time when cut and make a good flower for florists' use. Their principal qualifications for a good florists' flower are their fine long stems, good keeping qualities, cheapness and ease of culture.

After the plants have flowered and have begun to show signs of new growth then it is time to repot. We repot our plants about every second year. When the plants are turned out of their pots take a sharp stick and pick away a large portion of the old soil. Use well drained and thoroughly clean pots and if the plants are in good health give them one size larger than they were in before. A compost of fibery loam, leaf-mould and rotten cow manure suits them well. Spread the fleshy roots out well in the pots and see that they are not bunched up together, packing the soil moderately firm about them. Until the roots take hold of the fresh soil water sparingly, but syringe frequently and keep

moist atmosphere; this will induce strong healthy growth which is the forerunner of a good supply of flowers. As they fill the pots with roots occasional watering of liquid manure is beneficial. A temperature of 55 degrees to 60 degrees suits them. As the plants are terrestrial and evergreen it is not advisable to dry them off at resting time. If they require a rest it is best given by putting them in a cooler place and keeping them slightly drier.

There are many more species belonging to this genus, and there are also many fine hybrids which have been raised of late years but these are too expensive for general use and hence the reason for recommending this old fashioned orchid which is so easily grown and flowers so freely.

Robert Cameron

British Horticulture.

GROWING FOR MARKET

In a paper which was recently read before the members of the Addlestone Gardeners' Society some interesting facts were given to show the progress made in commercial horticulture in this country. The total area under orchards in 1904 was 243,008 acres, and small fruits 77,947 acres. The former has increased in 63.9 per cent. in 31 years. Fruit growing has in many places been substituted for corn crops, which are no longer profitable owing to the heavy cheap foreign supplies. Two tendencies are observable in the modern development of market growing, and these are the cheapening methods of cultivation and the increase in the variety of crops grown. Amongst the later changes touched upon were experiments which are being made in the utilization of the motor service for conveying produce to London, and a new departure which is being made in the Evesham district in Worcestershire to produce early vegetables. Hitherto this branch has been chiefly in the hands of the French growers, who by the use of frames and bell glasses cultivate quantities of lettuce, radishes, asparagus, cauliflower, etc., for the British markets. A French grower has been conducting operations in the Evesham district, and he has already demonstrated that it is possible to produce as good crops as those cultivated in the neighborhood of Paris.

IRISH HORTICULTURE

F. W. Moore, Director of the Royal Botanic Gardens, Glasnevin, has lately published some interesting facts relating to the progress made in Irish horticulture in recent years. He considers that there has been a distinct advance in the cultural standard of the private establishments, whilst the same satisfactory movement has characterized various branches of commercial horticulture. Instead of being dependent on English sources for supplies, the Irish nurserymen have established a world-wide trade. The Irish seed merchants now secure large contracts outside the country. "Roses, tulips, narcissi, herbaceous plants, anemones and dahlias," Mr. Moore states, "are now grown better in Ireland than anywhere else, and our Irish specialists are kept busy supplying orders for these classes of plants for almost every place outside Ireland, where the climate permits such specialties to be grown. Holland even is a large customer for our own specialties." The fame of the Irish nurserymen is now well established, for it

is to the "Emerald Isle" we look for some of the leading novelties at the summer exhibition of the National Rose Society. Fruit growing is another branch in which satisfactory strides have been made. Under the auspices of the Department of Agriculture over 200 acres of young orchards have been planted. Experts are engaged in giving practical instruction in various districts, to provide trained men.

AN IMPORTANT WORK

Professor G. S. Boulger, F. L. S., a noted writer on botanical subjects, is publishing in monthly parts, through Messrs. Cassell & Co., his famous work on "Familiar Trees," illustrated by photo-micrographs of each wood, and a series of water-color drawings. Some years ago Professor Boulger read a paper at the Surveyors' Institute on "The scientific study of timber," and this was to some extent the foundation of his great work on wood. His real interest in trees, however, began in 1876, when some students in his natural history class at the Royal Agricultural College at Cirencester entered for the forestry examination of the Highland and Agricultural Society. At their request the Professor gave what was undoubtedly the first attempt at a complete course of lectures on forestry in the country. This led to his contributing to the Journal of Forestry which was started about that time. In that journal Professor Boulger published a series of papers on "Cultural First Principles," which fully dealt with the physiology of trees, and he followed this by a series intended partly for artists on "The Beauty of British Trees." As an indication of the painstaking character of Professor Boulger's work it may be mentioned that his works on wood and "Familiar Trees" each represented three years' hard work.

A DUCAL DOMAIN

One of the most delightful estates to be seen in the sylvan surroundings of Surrey is that of the Duke of Connaught, at Bagshot Park. The extensive grounds are noted for the magnificence of the trees and flowering shrubs. The place is also full of historic interest, for here the visitor is shown a remarkable specimen of *Abies firma*, planted by the late Emperor Frederick of Germany in 1880. In the same year the late Queen Victoria planted an *Abies pinsapo*. Five years later Prince Leopold of Prussia planted a *Tsuga Menziesii*, and the Duchess of Connaught a similar tree. In the gardens rhododendrons and azaleas are special features. Some of the former are 33 feet through, and they flourish most luxuriantly owing to the peaty nature of the soil. *Kalmias* are another leading attraction. *Kalmia latifolia* often grows to the height of 18 feet. The varieties vary in color from nearly white to deep pink. Leading to the orangery are three distinct avenues. One is called the rhododendron walk, with plants from 5 to 12 feet high. One of the finest varieties is *Rosslyana*, which flowers in March, with bright scarlet blooms. Another avenue is lined on either side with *Azalea pontica* in variety, growing more than five feet high, and of a very large circumference, whilst the third has yews on both sides. On the walls of the orangery, *Wistaria alba*, flowers luxuriously in summer. On the mansion there are grown *jasminum*, *pyracantha*, *escallonia*, variegated ivies, and *Crimson Rambler* roses.

W. H. Adsett.

Buddleias

See colored supplement, issue of March 24, 1906.

The Buddleias are valuable flowering shrubs, hardy in English gardens, and now, thanks in a great measure to the initiative of Messrs. James Veitch & Sons, several new sorts have been added to our collections and doubtless will soon be widely grown where hardy flowering trees and shrubs are valued.

The commonest of the buddleias is *B. globosa* (the orange Ball Tree). It derives its popular name from the curious appearance of its flower-heads. This favorite shrub is a native of Chili; in English gardens, particularly those of the south and southwest, it grows freely and in time attains a large size. A large plant in full bloom is very handsome. It is of rapid growth and even if cut down by frost in winter will invariably grow freely again the next year. *Buddleia variabilis* is also a valuable shrub, although at present not so widely grown as *B. globosa*. It is a native of China and was found by a French missionary, who sent seeds to France in 1893. From these seeds plants were raised that flowered the following year. Dr. Henry has found it growing in Central China. *Buddleia variabilis* was thus described in *The Botanical Magazine*, August, 1898: "This plant is a native of the mountains of Ichang and adjacent provinces of China. It is a large shrub, 8 to 10 feet or more high, very variable in foliage and with flowers densely crowded in globose heads peduncled in the axils of the uppermost leaves, and which vary in color from pink to pale lilac with an orange throat." It is a vigorous plant and flowers freely. In spring it grows freely from the old wood and during the summer makes growths 4 feet to 5 feet long. It is cut back more or less each year, but this is as might be expected, for it is of a semi-herbaceous character and grows until late autumn.

Buddleia variabilis Veitchiana is a handsome plant and superior to the type. It has received a first-class certificate from the Royal Horticulture Society. *Veitchiana* is more robust than *variabilis*, and bears larger panicles and flowers. The color of the latter is also brighter, being deep lilac or violet-mauve with orange-colored centre. The variety *Veitchiana* is one of the many good plants we owe to the collector, Mr. E. H. Wilson, sent out to China by Messrs. James Veitch & Sons. Those who have grown *Buddleia variabilis* should certainly not be without the variety *Veitchiana*. One grower writing of it says: "In the spring I was given a tiny plant of the variety *Veitchiana* about 6 inches in height. This was planted out in the garden and now has shoots 7 feet in length, while it has been flowering freely for the last fortnight. The bloom racemes at more than 12 inches long, but I have seen some on larger bushes that exceeded 2 feet in length."

Buddleia variabilis magnifica is considered by some to be even finer than *B. v. Veitchiana*. Others, however, prefer the latter. *B. V. magnifica* is more robust than *Veitchiana*; it has larger flowers,

which are some shades deeper in color than those of *Veitchiana*. This buddleia has received a first class certificate from the Royal Horticultural Society. It was generally admired when exhibited by Messrs. James Veitch & Sons, and was regarded as a promising new shrub.

Buddleia Colvillei is the most beautiful of all the buddleias, but unfortunately it is not hardy when planted in the open garden. It needs the shelter of a wall in this country to enable it to be grown satisfactorily. Even then it is all the better for some slight protection during severe weather. Mr. James Veitch describes it as a native of the Sikkim Himalaya where, at an altitude of 9000 to 12,000 feet, it forms a large erect shrub or small tree 10 to 12 feet high. The campanulate flowers, which are produced in great numbers in long terminal panicles, are bright rose-pink shaded with red.

H. H. THOMAS.

Moving Large Evergreens

Few men have had so much experience with the planting and transplanting of evergreens during the past few years as Arthur Griffin, superintendent of the E. T. Gerry estate at Newport. Dozens of immense specimens were moved long distances last winter and the winter before and, notwithstanding the commonly entertained idea that it is a risky business to move evergreens at that time of the year, not one of those moved has succumbed; on the contrary all have made good growth of root and branch. On removing some of the medium-sized trees again last fall, in order to make a slight rearrangement, Mr. Griffin was exceedingly surprised at the growth the roots of these trees had made.

These are facts worthy of the consideration of any one contemplating moving large spruce trees—trees that would change completely the appearance of a place. It is well-nigh impossible to move such large specimens in the spring, whereas if the work is done in frosty weather the only conditions absolutely necessary are money and the presence of a careful overseer. Many disappointments result from attempts at moving large trees of any kind in the spring and this is especially true of evergreens because very often it is found that their roots help but little in holding together the ball of earth required in moving, and no matter how much care is exercised in binding this ball very often a great part of it is lost before the desired destination is reached. Again, the moving of many trees of large size in the busy spring or early summer is attended with great inconveniences, and occasionally the work, for obvious reasons, is so hurried that these conditions in themselves contribute somewhat to the failures when failures occur.

When moving trees in winter it may be better to take a larger ball than would be thought necessary at any other time, but on account of the ease with which this extra large ball may be handled when frozen the increased size will not add proportionately to the cost.

David McIntosh.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE
FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

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WM. J. STEWART, *Editor and Manager.*

Easter
greeting

Spring has come. We see it in the bursting buds and blooming crocuses, we hear it in the song of robin and blue bird and it thrills us with longings for the outdoor life and the invigorating breath of the garden and the wildwood. Dull impulses are stirred to fresh life and the wonderful regeneration going on all around us inspires us with living purpose. How detestable the selfishness and stupid follies of every day experience appear in the wholesome light of the spring awakening; how the burdens of material existence lighten; how buoyantly one assumes fresh responsibilities; how hopeful looks the future! May this glorious Easter season bring happiness and prosperity in overflowing abundance is HORTICULTURE's sincere wish for every reader of this our second Easter number.

For the
Easter growers

Agreeably to custom, this week's issue of HORTICULTURE is dedicated to the glorious spring festival of flowers and the great industry which plays so important a part in the appropriate celebration of the day. The greenhouses now so radiant with gorgeous color, the reward of many months of unremitting toil and anxiety, will in a few days be divested of all their glory and their fragrant contents will have gone out into the homes of rich and poor, of joy and of sadness, carrying their sweet message of the spring time, of new hope and inspiration. We believe with the speaker at the rose banquet that flower culture is the most honorable and elevating occupation on the face of the earth and it is our best wish for the Easter plant and flower growers that they may have willing buyers for everything they produce and ample returns for their investment and labor.

The advantages
of visiting

Field days, so called, are rightly regarded in some of our florists' organizations as among their most instructive and enjoyable functions. The name, itself, is somewhat of a misnomer as applied to a greenhouse visit but the visiting habit is a good trait for either a society or an individual to acquire. It combines the advantages of the lecture and the

exhibition, the two universally recognized means of imparting instruction and stupid, indeed, must he be who cannot learn something to his own advantage on these excursions, not to mention the recreation to be derived from the outing and the friendly intercourse of one's fellows. The worker who seldom sees any place but his own, who imagines he cannot spare the time to participate in these social affairs, is his own enemy for, in the long run, he will surely find himself left behind, distanced by his more enterprising contemporaries, and a mere nonentity outside of his own conceit.

The indispensable
wholesale florist

In commercial floriculture the ultimate object has been only half accomplished when the flower has been produced. It matters little how well grown the stock may be if it is not also well sold. If it is to go to waste in the storehouse or be sacrificed at a fraction of its value to the street fakir all the work of its production has gone for naught. As a certain philosophical wholesale dealer is wont to say, "We've accomplished little or nothing until the flower is transferred from the ice-chest to the ledger or cash book." Our advertising pages in this issue are well patronized by the men who are engaged in the indispensable work of transferring the great Easter product to the ledger or cash book. The business of the wholesale florist has grown within a few years to enormous size and importance. Its peculiar requirements have brought to the surface a class of shrewd business men, able, industrious and enterprising, well fitted to supplement the growers' cultural abilities by developing and maintaining a remunerative market for their product. They speak for themselves in our advertising pages. We hope our readers will favor them with their patronage for everything needed in the Easter material they offer. They are handling today the cut of the best growers by an overwhelming majority and can "make good."

Mahomet
goes to the
mountain

The "Better Farming Special" train is creating an unprecedented sensation as it proceeds on its route through the rural sections of New England. The cars are fitted up with exhibits bearing upon modern husbandry and agricultural methods and appliances and lectures are given at each town, where the train stops for an hour or so. Nothing that has happened within the experience of the present generation has ever aroused the interest of the farmers as this clever idea of bringing to their doors the demonstration in a practical way of what the experiment stations have investigated and proven in the years since their establishment. The accumulated knowledge of the agricultural colleges derived from scientific study and experiment is now in a fair way to reach and benefit those for whose elevation and enlightenment these institutions were founded but who with characteristic rural perversity or skepticism have never been disposed to learn much from the Bulletins and the "new-fangled" methods therein set forth. "Mahomet called the hill to come to him, again and again; and when the hill stood still he was never a whit abashed, but said, 'If the hill will not come to Mahomet, Mahomet will go to the hill.'"

THE COMING OF THE DAFFODILS.

(By Alfred Austin, Poet Laureate of England.)

"Awake, awake! for the springtime's sake,
March daffodils, too long dreaming!

The lark is high in the spacious sky,
And the celandine stars are gleaming.

The gorse is ablaze, and the woodland sprays
Are as crimson as August heather,

The buds they unfurl, and mavis and merle
Are singing duets together.

"The rivulets run, first one by one,
Then meet in the swirling river,
And in out-peeping roots the sun-god shoots

The shafts of his golden quiver.
The thrush never stops in the hazel copse,

Till with music the world seems ringing,
And the milkmaid hale, as she swings her pail,

Comes out from the dairy singing.
"The madcap lambs round their steadier dams

Are skipping as, one time, they did;
And, proud of the cheat, will the cuckoo repeat
Soon the tale of the nest invaded.

The swain and his sweet in the love-lanes meet,
And fondle and face each other,
Till he folds her charms in his world-wide arms,

With kisses that blind and smother."
Then the daffodils came, aflame,

aflame,
In orchard, and garth, and cover;
And out April leapt, and first smiled, then wept,

And longed for her Mayday lover.
—From the Independent.

OLD FOGIES.

Editor HORTICULTURE:

Dear Sir—Permit me to congratulate you on having at least one live personage on your staff of contributors who can discern a possible humbug when he sees it, and prescribe in befitting language measures calculated to undo, ere they get too bold, excessive enthusiasm on the part of those responsible for same; thus rendering valuable services to the,—I trust,—fast increasing numbers of the readers of your journal. This gentleman is endowed with argumentative faculties of a convincing nature, that is evidently begot from sound practical experience and observation. I simply wish to add my humble indorsement to the sentiments expressed and so well put by your correspondent, R. T. McGorum, in the last issue of your paper regarding the so-called "new fangled, mechanical watering." I honestly believe that this scheme is outside the pale of serious consideration as far as practical working is concerned under glass.

Doubtless we may be considered fit subject to come under the headline caption,—but time will tell. It cannot be said, however, that we are cowards, inasmuch as we dare to express our convictions.

I for one shall retire from the field of contrary opinion, as gracefully as you please, hat in hand, with unalloyed reverence for the victor, should future results prove the opposite to our way of thinking. K. FINLAYSON.

MORE ABOUT MECHANICAL WATERING.

Answering criticism of Robert T. McGorum as published in HORTICULTURE of March 24th, page 360.

Mr. McGorum starts his arguments with a poem which probably originated with one of his ancestors when the old can was in its prime. Poetry may be all right in its place, but I cannot see what it has to do with mechanical watering. Mr. Mc. says that the readers of HORTICULTURE are no wiser after reading my remarks than before. I wish to say that none of us are apt to grow much wiser by a few remarks on paper which can only be suggestive of what is possible unless we take advantage and make use of what is in our reach. As far as Mr. Mc. getting insight into mechanical watering I would advise that he give it a trial, but am afraid that owing to the fact that he has used the watering can so long his set ideas in this direction would not allow his seeing its advantages, his brain is so full of old theories that it will not absorb new ideas; it is like a sponge full of water—you can pour water all over it and none will soak in.

Then he goes off somewhere and has a dream about dry spots and red spiders; these are also some of the impressions time has printed into his brain, otherwise he would not dream about them. "Wake up," Grandpa McGorum, rub your eyes so you may see clearly that with mechanical watering there is no need of dry spots or red spider.

He mentions that a mechanical watering system was used in an adjoining town of his many years ago, and believes that the concern is now out of business. What kind of a system was it? There are different ways of going about things. Does he mean to say, that the mechanical watering put them out? I do not claim that the mechanical watering is a panacea for all business ills, that it will make an expert grower of a ditch digger. But if used aright it will soften preconceived opinions, and make many converts from Mr. McGorum's old-time methods.

He speaks about cement benches, saying they are being discarded. Let me say, as cement is superseding wood in other building operations so it will supersede the wooden bench and many other parts of greenhouse where wood is now used. I say again mechanical watering will supersede the can and hose for greenhouse watering as sure as the hose has superseded the can because it practically does away with the watering labor. It will do better work than a man can do with the hose and will grow more uniform crops. He will probably ask what has he to prove the above assertions. In answer I will suggest as "the proof of the pudding is the eating thereof," that every one interested try mechanical watering to prove its superiority to his own satisfaction, as I have proved it to mine, and others, where the system is installed have proved it to theirs.

In conclusion I might offer the following, written to another party, by W. B. Davis, a leading western grower:

While all have heard of watering machines, they are by most grow-

deemed an impossibility, and those who have dared to experiment in that direction have received little encouragement. Nevertheless, the watering machine is now an assured success. W. B. Davis & Co., of Aurora, Ill., have taken the lead by putting the system in their entire establishment of 50,000 square feet, this probably being the first greenhouse in the world watered exclusively by machines. The watering now done perfectly in one hour formerly required nine hours.

LOUIS WITTBOLD.

A FEW MORE WORDS ABOUT MECHANICAL WATERING.

Mr. Wittbold would have us believe that the idea of mechanical watering has for its origin the rising and progressive young men of the present day. Mechanical watering, like several other young ideas, has gray hairs.

Forty years ago, at Sir W. Armstrong's place, in the hills above Rothbury, Northumberland, England, was an orchard house. I cannot give the dimensions, as I was young at the time, but the plants under cultivation were the ordinary subjects of an orchard house—apples, pears, plums, cherries, nectarines, peaches, apricots, etc. They were all nice, shapely trees, say 8 feet high by 5 feet through. They were all established in slate tubs, as near as I can recollect, about 2 feet square or more. They were all on an arrangement of castors by which they could be turned or moved with the slightest effort, and a pipe ran over the whole of the rows of tubs, whereby they could be watered. There was also an arrangement for spraying the whole house. I made this trip with my father and Mr. James Gray, of King's Road, Chelsea, London, and remember yet lots of the conversation between them on the 16-mile drive home. Mr. James Gray was one of the pioneers in greenhouse construction and hot water heating. I also remember at the above place, the natural fernery, at that time one of the finest in Britain. It was formed by covering a mountain "burn" with glass, and the cascades, pools, grottos, etc., were the home of luxuriant specimens of ferns that could not attain such vigor under less favorable conditions. I allude principally to the filmy section, such as *Todeas pellucida* and *superba*, *Hymenophyllum*, etc. The tree ferns, too, were grand. Almost everything on this place had to be under glass, as it was perched away up on the bleak side of the Cheviot Hills, but the magnificent scenery amply repaid for the inconveniences of the situation.

I ought to state, in conclusion, that the "mechanical arrangement" was not thought much of by the gardener in charge, whose name, I am sorry to say, I have forgotten.

CHARLES INGRAM.

PERSONAL.

Wm. Hagemann, New York, has gone to Bermuda on a business trip.

Julius Roehrs of Rutherford, N. J., returned on March 31 per steamship America from his European trip.

Joseph A. Manda of South Orange, N. J., who has been very sick for some weeks is now out of the hospital, and is rapidly regaining lost strength.

NEWS OF THE CLUBS AND SOCIETIES.

PHILADELPHIA SPRING SHOW.

In my hurried notes last week I omitted many important exhibits that deserved noticing. In the class for four azaleas in 10 inch pots John McCleary was first with a nice lot. There were some fine plants of Gloire de Lorraine begonia grown by Mr. Clement E. Newbold's gardener, Samuel Batchelor, which was awarded first premium. William K. Harris had a group of rhododendrons which carried off the first, so also had John McCleary gardener for Mrs. Walker. Marguerites in 12-inch pots were magnificent specimens, William Robertson securing a well-merited first for same. Same exhibitor also took first for specimen acacia and for a specimen plant of zonal pelargonium. Daniel Neeley, gardener for Craige Lippincott was first for a well-grown batch of cyclamens.

There was an exhibit of the *Arabis alpina flore-pleno*—but the "pleno" seemed to be missing. First for varieties of English primrose went to Arthur Malton, Jr., gardener to Edgar T. Scott. Three pans in three distinct varieties of wallflowers exhibited by William Robertson took first and were very much admired. A pan of "London Pride," *Saxifraga umbrosa*, by same exhibitor brought pleasant memories to many.

In pot roses William Robertson swept all before him. His Baby Rambler, Killarney and Frau Karl Druschki all showed evidences of good culture. A thalictrum exhibited by John McCleary showed conclusively what may be done with many similar plants. The Julius Roehrs Co. had a very chaste collection of orchids. Taking the show all together it was very instructive and merited better patronage.

EDWIN LONSDALE.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Ant. C. Zvolanek, Bound Brook, N. J., submits for registration the following sweet peas:

Mrs. Wm. Sim, seedling from Christmas White X Mr. Wild (exhibited in Boston as No. 81); color, salmon-orange.

Mrs. T. J. Dolansky, seedling from Enchantress (exhibited in Boston as No. 96); color, silvery pink.

Samuel J. Trepass, Glen Cove, L. I., N. Y., submits for registration the following carnations:

Maxwilton, seedling of 1903 (Mrs. Thos. W. Lawson X Enchantress); flower, white, 3 1/2 inches across, slightly fringed; stem, stiff, 26 inches long; very free with good calyx.

Caroline Whitney, seedling of 1905 (Lady Bountiful X Enchantress); flowers, white, fringed, 3 1/2 inches in diameter; stem, 18 to 20 inches; wiry, good calyx, also good grower.

WM. J. STEWART, Secretary.

COLUMBUS FLORISTS' CLUB.

The last regular meeting for the month of March was held on Tuesday evening the 27th, with President Stevens in the chair. It was the largest gathering of our members seen in a long time, some forty being present. The matter of putting up, and sending out to the various schools, the penny packets of flower and vegetable seeds for the school gardens was continued. Many inquiries have been received from various cities throughout the state for seeds for the children—this movement is extending all over Ohio. Our club is very much pleased that the S. A. F. meeting this summer is to be at Dayton; the attendance from here will be large, and a bowling club is already taking form. After the meeting there was a very interesting discussion on roses in which all took part. The meeting was held at the spacious offices of the Fifth Avenue Floral Company, as the club finding its old quarters in Iroquois Hall very inconvenient in many ways has given them up, and as yet has not decided where to permanently locate. The meeting was thoroughly enjoyed by all, and when the members departed at a very late hour after having enjoyed to the full, the good things provided by the hosts, the many benefits provided through our organization were fully realized.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next regular meeting of the club will be held at Horticultural Hall, Boston, on April 17. J. A. Pettigrew will lecture on "Embellishment of Streets and Waysides."

Tickets are now in the hands of many members for the club banquet on April 25, and are selling fast. The attendance promises to be a record-breaking one. Applications already on hand assure a membership of over 300 on April 17, and the 400 goal will be reached ere the end of the year.

W. N. CRAIG, Sec.

PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

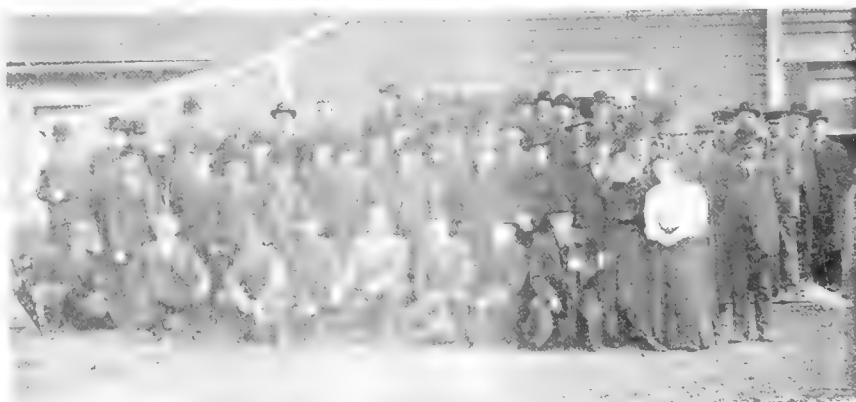
"Easter Plants and Flowers" was the topic for discussion at the club meeting, Tuesday evening, April 3, and it was illustrated by a liberal display of flowers and plants. After routine business, the election of two members and a shaking up of delinquent members, the meeting took up the flowers and plants in detail.

David Fraser, gardener for H. C. Frick, showed azaleas, lily of the valley, begonias and *Hydrangea rosea*. This hydrangea, while by no means new, is not commonly grown, and it drew much attention, its pink blooms showing to advantage under artificial light.

H. L. Blind and Bros. showed hydrangea in bloom in a large tub from last spring cutting, forcing started in January, genistas in bloom, and Crimson Rambler roses. A comparison of the merits of the Crimson Rambler and Philadelphia Rambler brought on the fact that while winter before last both Ramblers withstood the severe weather unhurt, yet this last winter the mild weather of January had started the buds alike on both, the Philadelphia being killed to the ground, while the Crimson was unhurt.

Blind Bros. also showed *Spiraea Gladstone*, lilacs and a fine lily. The talk on lilies developed that the bulbs had proven very poor this season, some growers estimating that they had lost over one-half of their bulbs, those coming from Japan proving the worst.

The Shenley Park Greenhouses showed cinerarias, Veitch's strain, in pots, also a collection of the blooms on cardboard, with short stems extending through the cardboard into wet moss in a shallow box, all in such shape that it was passed from one



GARDENERS' AND FLORISTS' CLUB OF BOSTON VISITING W. W. EDGAR CO.



PART OF SPRING EXHIBITION OF MASSACHUSETTS HORTICULTURAL SOCIETY.

member to another for critical inspection. Also daffodils in variety, well-grown Henry Irving looking particularly well; jonquils and a pot of *Nicotiana glauca* in bloom; tulips in variety, of which *Ophir d'Or* seemed the best yellow, *Prince of Austria*, the best scarlet, and *Albion* or *White Hawk*, the best white.

The Park showed hyacinths in great variety. *La Grandesse* was perhaps the best white, and *Prince of Saxony* the worst of any color shown. *Norma* and *Goethe* were fine in the light colors. *Cavaignac* was admired by some.

For the next meeting, "Bedding Plants and Palms" will be the subject.

H. P. JOSLIN.

CLUB AND SOCIETY NOTES.

The regular monthly meeting of the Florists' Association of Indianapolis was held April 3. Final arrangements were made for the Spring Show, April 9.

The Messrs. Farquhar of Boston entertained the members of the New Bedford Horticultural Society with an illustrated lecture on "The Bulb Growing Industry of Holland," on the evening of March 27.

Dennis T. Connor, the Philadelphia representative of the Lord & Burnham Co., will give an address on "Greenhouse Building: the Latest Improvements," at the May meeting of the Florists' Club of Philadelphia, Tuesday evening, May 1.

The members of the Gardeners' and Florists' Club of Boston, to the number of about sixty, had a field day on Saturday, March 31, visiting the

greenhouses of W. W. Edgar Co. and Pierce Bros., where they inspected with much pleasure the Easter crops, and were sumptuously entertained.

Robert Craig addressed the Florists' Club of Philadelphia on Easter plants on the 3rd inst. He traced the progress of this industry for the past 20 years and pointed out the newest good things that should be used today, a very able and interesting paper, which will be found in its proper place in our columns.

Recent visitors in Philadelphia: W. W. Edgar, Waverly, Mass.; Mr. and Mrs. R. J. Halliday, Baltimore, Md.; Mr. and Mrs. Lloyd G. Blick, Norfolk, Va.

ROSE GROWING FOR CUT FLOWERS.

Paper read before the American Rose Society by J. J. Curran.

Mr. President and Gentlemen: When I undertook to read a paper before your society on this subject, I had little thought that after my researches into the newer methods I should find so little that was really new. It is an old saying, and a true one, that there is nothing new under the sun, and I am somewhat inclined now, to be of that opinion also, for just as I would be congratulating myself on having found or heard of something new, along comes one of the old boys and tells me that this same method has been followed in years gone by. After a few of these disappointments I made up my mind to give you such facts as I have gathered in my researches. If they contain anything new, so much the better; if they are old, they may bring back pleasant recollections to some of us, and renew the scenes of our youthful battles.

When starting to review the newer phases of rose culture it will be appropriate to start with the beginning of the rose plant. By this I do not mean the cutting or scion which, of course, is no new plant, but simply a perpetuation of a branch of the original plant. I mean the product of the hybridist's art. The skill, care and untiring energy which these gentlemen have brought to bear on this branch of the business has been of infinite benefit to the craft, inasmuch as we now have a larger field from which to choose our varieties, and I may also add that we have finer and more suit-



GROUP OF HARD-WOODED CUT FLOWERING PLANTS AT SPRING EXHIBITION OF MASSACHUSETTS HORTICULTURAL SOCIETY.

able varieties to choose from, because these varieties have been raised having in view their suitability for forcing purposes.

These gentlemen deserve the thanks of all growers, and among a host of other workers our worthy president and Mr. E. G. Hill, who have recently given us two such valuable varieties as Wellesley and Richmond, deserve our especial thanks. Devoting very little time to this branch of the business, I am unable to give you any new pointers, and if our hybridists have learned anything new they are holding it up for future use, or perhaps they are only exercising that Scotch caution recommended by the immortal Burns:

"Aye free aff hand your story tell,
When wi' a bosom crony
But still keep something to yoursel',
Ye scarcely tell to ony."

After having secured new varieties of merit, the work of the ordinary grower begins. In order to produce stock in quantity and quality from these new varieties is the condition now confronting us, so that we may be remunerated for our skill and labor.

Profiting by the mistakes made in bygone years, our disseminators do not now force the life and constitution out of the variety in order to secure large quantities of young stock for market, but, rather grow it on a year or two longer, studying its character and peculiarities and paying especial regard to maintaining and improving its constitution, so that now when a variety is disseminated we have every confidence that it will respond to ordinary cultural methods, when due regard is taken of any peculiar habits or traits it may possess.

The time-honored method of perpetuating varieties by cuttings is still almost universally in practice, and when soil is suitable, some varieties of stock so propagated succeed well. This subject has called for a good deal of experiment and discussion of late years, and I think it is conceded by most growers that where the soil is of a loamy nature that most varieties at present in cultivation under glass succeed well, if not better, than grafted stock. Where the soil is of a poor quality, requiring large supplies of liquid or other food, it stands to reason that plants grafted on Manetti or other stocks possessing an abundance of fine feeding roots can absorb and use it to more advantage than own root stock.

Propagating by grafting being practically new in this country as applied to stock under glass, there is a better field for advance and improvement, both as regards the variety and class of stock to be used, the style of graft, quality, size of scion and after treatment.

Within the past few years, I have seen many improvements in this method of propagation, because instead of being only copyists we are doing our own thinking, and when we have to think for ourselves, we are just as certain to improve as that the sun will rise in the east.

Most of the establishments which practice grafting in quantities are equipped with neat and sensible cases in which to care for the young stock until they are fit to be placed on the bench, and this I consider the most essential element to success. That grafted stock is being used more freely year by year is certain and this very fact proves that we are moving along the right lines but before we entirely drop our root stock, we should first satisfy ourselves by experiment that our soil and varieties are best adapted to grafted stock, as indiscriminate planting of grafted stock irrespective of quality of soil and other conditions may not always be a success.

The most suitable kind of a bench for rose culture has also been a much discussed question and this discussion has led to many real and economic improvements. There is a wide difference between the old lumber bench of twenty years ago, with the everlasting repairs which kept it company, and the neat and indestructible iron and tile benches of the present day. Even in the matter of solid benches for those who still have a favor for them there is a decided improvement. Bringing as we do our experience of the past, and our scientific knowledge regarding aeration and drainage of soil into our service, we are able to build benches better suited to the requirements of the stock.

In respect to planting we cannot say we have made any great advance in recent years, the same general principles applying as formerly. Some few years ago we imagined we were on the edge of discovering something new regarding watering, and the theory of sub-irrigation was given an impartial trial by many of our expert growers, only to be relegated after a time to "the realms of innocuous desuetude." Other schemes automatic and otherwise have been advanced and tried but so far as the rose is concerned we have to depend on the accurate judgment of the man with the quick eye and the deft hand for our success.

Our studies in plant and soil chemistry are every year bringing us nearer perfection in cultural methods, particularly as regards the quality of food required by the plant in confinement under our care where we have to attend to their every want and supply it at the proper time. It is encouraging and a gratifying augury to find so many of

our young brethren devoting themselves to the attainment of knowledge on a scientific basis. They are sure of their reward.

In our battles with our insect and parasitic enemies we have been ably supported and advised by some of the best entomologists and professors of horticulture who have supplied us with the life histories of nearly all insects and parasites injurious to our crops and the most effective means of exterminating them or keeping them in check. Our thanks are especially due to Prof. Byron D. Hatstead for the much needed advice and information he has given us on these subjects.

During the past decade our most radical advancement has been in horticultural construction and heating systems as applied to the same. Not so many years ago when we thought of building we had ourselves to be architect and builder, plan and lay down our own heating system, and be general utility man. We have now professional architects vying with each other as to who will produce the most economic, shadeless and handsome buildings suited to our wants with heating systems and ventilating apparatus, which are simply perfection when compared to our buildings and appliances of twenty years ago. When we compare the handsome, lofty, almost shadeless and well ventilated structures of the present with the low walled, heavy raftered, hand ventilated building of twenty or twenty-five years ago we must wonder how it was possible for the growers of those days to produce such excellent stock as they did. We also have the advantages of high class educational trade papers, in the columns of which we can in a friendly way discuss questions pertaining to the profession, and which I consider can with justice, lay claim to the credit of aiding us very materially in our progress.

Last but not least we have this society which through the energetic efforts of its officers has done much to make the rose popular, to gather and disseminate knowledge as to cultural methods, control of pests, etc., and to foster that brotherly feeling amongst the craft, where friendly discussions of our many interests must of necessity be of the greatest importance, and lead to advancement. So that with the advanced methods and our past experience to guide us the knowledge science has placed at our command and the faculties we enjoy in improved construction, perfect ventilating machinery, excellent heating systems and our advanced scientific knowledge, the outlook for the rose grower is of a rosier hue than it has ever been in the history of American floriculture.

SOLUBLE FERTILIZERS.

Paper read before the American Rose Society, 23d March, 1906, at Boston,
By Dudley Malcolm Pray.

About three-quarters of a century ago a great deal of the mystery of chemistry was cleared away by the discovery that a certain chemical substance (urea) could be made in the chemist's laboratory. Up to that time it had been supposed that this and similar substances could be made in one way only, by obscure processes in the living animal. The fact that such substances could be made from dead things, as it were, and yet be an exact counterpart of those eliminated from living animals caused a profound revolution of thought. Since that time such progress has been made that today we all but make living things from inanimate matter by chemicals, if you will.

It seems to me that a similar office for horticulture has been performed by those who fifty years ago first brought plants to maturity without soil, by the so-called water culture. In this method, after the seed was sprouted, and when it had a few roots it was supported upright by a split cork or convenient holder over water into which its roots hung, which contained minute amounts of plant food in solution. In this way buckwheat, corn and oats were brought to maturity. This method of growing plants eliminates the soil, thus simplifying the whole question of essential and non-essential root-foods in plant life. The essentials are found to be seven elementary substances, nitrogen, phosphorus, potash, lime, chlorine, iron and sulphur, and the non-essentials are soda, magnesium and silica and many others. Of the essentials only nitrogen, potash, phosphorus and lime need concern us, as there is usually enough of chlorine, iron and sulphur in most soils. Lime is found in sufficient amounts in many soils, but is sometimes added to sweeten the soil, i. e., to correct acidity, which may be caused by excessive moisture or acid fertilizers. As a matter of fact, we are concerned mainly with the three remaining essentials of plant life, absorbed through the roots, nitrogen, phosphorus and potash, for these are needed in large amounts and must be supplied continuously to the plant. A fertilizer having these three ingredients is termed complete.

Not only have these facts been learned from water culture, but that also extremely small amounts of food, even two parts in one thousand, will abundantly sustain active life. To bear this out, we could mention orchids which are fed daily with very dilute solutions whenever watered, and occasionally with a complete soluble fertilizer called Cookson's formula from its originator. This chemical has demonstrated its value for years, and is commonly used one part in ten thousand parts of water. Note the extreme dilution.

The source of nitrogen blood, tankage, guano, all sorts of animal manures, and various commercial fertilizers are used. Soluble sources, nitrate of soda, liquid ammonia and ammonia salts, as ammonia sulphate, and phosphate. For rose culture, stable or cow manure is often used, and sometimes nitrate of soda, of

which we shall speak later. Green manuring is sometimes used.

For phosphates the animal manures are largely used, also bone, whose phosphate of lime is very slowly given up; in fact, bone-meal requires years to obtain its full value. Super-phosphates are much used out of doors, but not much under glass, and not being soluble are not adapted to use in watering. None of these above mentioned are soluble or at once available. In certain stages of plant life the energy of the plant seems directed into the channels of blossoms rather than foliage. At this time phosphates and potash are demanded much more than nitrogen. The chemical, phosphate of potash, has fifty per cent. phosphoric acid and thirty-three per cent. of potash, and dissolved in water. Such feeding should give the needed incentive for blooming, and support well the blooms.

For potash, we have the animal manures from which it can be obtained quite easily, and wood ashes. As chemicals, there are the sulphate, muriate and carbonate. These chemicals are used out of doors mostly, but in doors there are often serious objections to their use.



D. M. PRAY.

About a generation ago, commercial fertilizers came into use. They were more portable and durable than animal manures, and answer for farming. Composed of insoluble materials, as blood, ground or dissolved bone, tankage, and usually with some cheap soluble chemical of the list already mentioned. They are not very satisfactory for rose culture even outside. Their variable composition, insolubility for tank use, often harmful ingredients, and low food value render them undesirable for bench work. Averaging perhaps fifteen per cent. total plant foods, with three-quarters useless "filler," they yet mark a distinct step towards an ideal soluble fertilizer, and away from the old disagreeable manures.

Rose soil under glass is often mixed with bone and dung (with the latter's numerous living retine), and sometimes lime. But to grow large fine roses and many of them resort must be had to feeding, especially in the height of the season. While top-dressing can be done by hand, the use of the watering equipment to apply soluble food is of great advantage and fast coming into use. For this purpose manure tanks of wood or concrete are

much used, and the manure is dumped into the water, and generally strained before going into the water system. This simple method gets much of the potash out, but a great deal of the valuable nitrogen and the phosphates must stay behind, not being dissolved in water.

An important question to every grower using such tanks is: "How much plant food is there in my tank water?" A chemical analysis will be of some use, but such analyses must be made often. As ordinary stable manure may be considered to have ten pounds of nitrogen and potash each, and less than seven pounds of phosphate per ton, and so much labor is involved, the actual cost of this plant food is much greater than is suspected by the grower. While these figures are general, they give an idea of some value as to what may be expected. By poor treatment one-half the nitrogen may be lost, thus losing a third of the value of the whole. If no urine is present it has only half the value of one composed of both solid and liquid ingredients. Exposure may have leached much of the value of the manure away without the knowledge of the grower. To get one pound of plant food for one hundred pounds of manure put into the tank is almost beyond hope.

We wish to point out the great value of soluble fertilizers in tank water. Without repeated chemical analyses, next to nothing is known of the water except by the appearance of plants days afterwards, and even if everything goes swimmingly, it is doubtful if the same treatment could be duplicated. Even with chemical analyses the situation is only a little clearer, for liquid manure water is not available at once, and much depends upon the soil, the condition of which we are not always certain about. By the use of soluble fertilizers the amount of food applied to any one bench can be known to a dot. For example, we wish to water benches with one hundred gallons of water and two pounds of food. We put the food in a bucket, see that it is completely dissolved, then throw it into the tank. To save time and bother, we have made out a little cardboard schedule with parallel columns showing respectively depths in inches in the tank, gallons of water, and finally figures showing in pounds and ounces the proper amounts of plant foods to use for various purposes. Or soluble fertilizers may be used in conjunction with the usual manure water. A measuring stick with light scores made at convenient distances is useful in ascertaining the exact amount of liquid in the tank. If the tank has a dead space, so that liquid always remains here, a blank space should be on this measuring stick, and in this way too much fertilizer for the amount of water will not be added. The grower now knows exactly what he is doing, which is a rather new thing. We think that while many growers would like to use soluble fertilizer more or less, they do not know just how to begin with absolute safety. They must first have some clear idea of what they are now doing before they can expect to duplicate plant foods with an immediately available fertilizer. They should consult with chemists interested in soluble fertilizers who could materially assist

them. In this connection we think the Government and various experiment stations have done much, and their publications are of value to the rose grower.

A word about nitrate of soda. We often hear of too much being used, and consider that one pound in a hundred gallons is a very strong feed. We think that one pound in two hundred and fifty gallons, which is about one part in two thousand, will do well for a starter.

In the use of lime in tanks for sweetening, it is well to bear in mind that never more than two pounds per one hundred gallons will dissolve. If a creamy mixture of lime and water is desired, that is a different thing, and its composition depends largely on the character of the lime.

We have said that the ordinary commercial fertilizer is a step toward the ideal one, but it lacks soluble ingredients, and often has harmful ones, and has but small amounts of plant foods.

An ideal soluble fertilizer should be entirely soluble, entirely available, non-acid, pleasant to use, of proper balance, not expensive, and as concentrated with as little bulk as possible. Such are manufactured today, having sixty per cent. plant foods (the highest possible amount) with no injurious ingredients nor any useless ones. In short, we may consider these pretty nearly a perfect soluble fertilizer. As time goes on and we have more definite information concerning the immediate needs of plant life, we have no doubt but that the soluble fertilizer will be up to date. Owing to the lack of appreciation of their very high percentages of plant foods and their purity from cheap and often injurious ingredients, their price may appear high at first glance, but calculating their units of soluble plant food, they compare favorably in price, especially with so-called natural fertilizers.

After all is said and done, the bald fact remains that the only food that is of any use to the plant roots is a soluble fertilizer.

THE RETAILER'S PART IN THE INTRODUCTION OF NEW ROSES.

Before the American Rose Society at Boston.
By George Asmus, Chicago.

The writer is enthusiastic on any subject in floriculture, whereby the exchanging of ideas is possible; and with that view firmly established at a very early age became a member of our noble Society of American Florists and Ornamental Horticulturists. I have become affiliated with local florists' clubs, flower shows and two of the great offsprings of the S. A. F., namely the American Rose and Carnation Societies. With that same feeling pre-eminent I accepted the invitation to read this paper before this honorable body, to express the views I have upon this subject.

To handle my subject briefly and clearly I have reduced the retailer's part in the introduction of new roses into what I shall term eight reasons;

First.—He should become acquainted with as many new roses as possible.

Second.—He should acquaint himself with the flowering habits of the new roses.

Third.—He should display new varieties prominently in show windows and stores.

Fourth.—He should arrange with commission men or growers for regular supply of new varieties.

Fifth.—He should learn the parentage or source of new varieties.

Sixth.—He should interest himself in naming of new varieties.

Seventh.—He should devote part of his time to horticultural societies and local florists' clubs to relate experiences with new varieties.

Eighth.—He should be one of a set of judges, and his essays more frequent.

I will now endeavor to answer the first of above reasons why the retailer should become acquainted with new varieties. The American flower buyers are principally composed of the educated classes who are desirous of knowledge; more so when pertaining to anything new. I will cite one incident that occurred during my stay here at the recent American Carnation Society's meeting, one that struck me very forcibly. With several gentlemen I was visiting one of the prominent florists of this city, when a lady entered, evidently a customer, who had availed herself of the opportunity to visit the beautiful display of carnations staged in this same building by America's best growers. She had with her a bloom of a new carnation, and being deeply interested in it wanted to know more about the flower, but contrary to her expectations none of the clerical force were able to give her the desired information. Luckily one of our party overheard the conversation and delighted the lady with the knowledge she had troubled herself to secure. This led me to inquire how many of the sessions had the three florists in that particular store attended? I was surprised to hear that neither one had been to the horticultural hall at all; and was more surprised when asked by one of the clerks (who professed 15 years' experience) "What kind of a show have they got any way?" That to me who had traveled 1,000 miles, was a revelation! Had he availed himself of the opportunity to become better posted on new varieties by attending the meeting, he would have been able to creditably answer the lady's questions. Surely our art is one to be proud of, and this hall this evening ought to be packed with local retailers filled with ambition and pride in their calling. The press of the whole country is evidently awakening to the great desire of the public on anything pertaining to horticulture; and we are on the eve of a great and prosperous future. Therefore it behooves the retailer as the great medium, he who meets the buyer direct, to acquaint himself with the new roses and distribute that information truly and accurately to the trade.

My second reason is: Why the retailer should acquaint himself with the flowering habits of new roses. Because the flowering habits regulate the supply; and the supply very often the price. He would also know when to expect the largest cut, and thus be able to obtain blossoms in quantity for all occasions, as for instance, a regular purchaser of a certain variety intends to entertain, and wants to know if she can obtain her favorite roses for that date. The confidence of the person would be strengthened by immediate knowledge.

Regarding my third reason: Why the retailer should display prominent-

ly new varieties. This is very important, and bears more than ordinary interest to his business. As I said before, the public is constantly looking for something new, and it is a fact also that people who are undecided as to the nature of the article they intend to purchase are often attracted by a particularly fine vase of new roses or anything new in our line, thereby causing many sales that would not otherwise have been made. Therefore, if it is the good fortune of the retailer to have at his disposal the crop of some grower who has spent his time and skill, and has blessed floriculture with the fruits of his labor, the retailer should do his part, and I will venture to say that if he made a proper display and worded the information he is constantly besieged for, he would begin to understand why his business was so dull. I saw displayed by a prominent florist in a very large window a vase of Catherine Mermet, at that time being new, and to the right and left not quite so prominently, its two sports, Bride and Bridesmaid. Making inquiries about results, I found that by being advertised, many sales were made, owing to proper display. This goes to show that very often we have cooped up in our ice boxes novelties that should be continually before the public.

Reason the fourth. Why the retailer should arrange for a regular supply of new roses, particularly varieties he displays. This was brought to my personal attention during our flower show last fall, when as manager I was on the lookout for material that the press would use, if we were to expect help to promote our interests in the local papers. One of our growers had a new rose which he intended naming, and as he had had some unsatisfactory experience in the past owing to names given to roses he was very desirous of getting the right name for this particular variety, and finally decided upon naming it after the bride of one of Chicago's prominent business men. The press immediately took hold of this subject and gave it much prominence by displaying cuts of the rose and the lady it was named after, also mentioning the grower and publishing information given by him. Previous to this press talk a few retailers in our city had this same rose in stock in such quantities as were available; but reports did not show that there was a notable demand for it. Now, however, note the change! The statement of the manager of the establishment where the rose was grown was that from 30 to 40 telephone calls a day was a moderate estimate, to say nothing of the calls at the local retail stores by people wishing to know where the rose could be seen and purchased. Naturally there was a scarcity owing to the demand, also owing to the usual methods employed by the grower in securing all the wood available for cuttings as soon as he found out he had a winner. The retailer is very apt to think that the variety has been exterminated were it not for the glittering advertisements in the trade papers. I sometimes think there are growers who do not sleep nights but go prowling around with a lantern in their greenhouses looking for new cuttings; therefore the retailers had better arrange for a regular supply of new roses before advertising too

strongly. It would be well to state here the worth of new roses as an advertising medium for flower shows. This was brought home to me very forcibly at our show, where I established a bureau of information, clerks in charge being over-run with inquiries regarding the location of new varieties advertised.

As to reason five. Why the retailer should learn the parentage or source of new varieties. Because it pertains to his business. When talking with the trade the impression left by the knowledge of new varieties can not help but do good. Very often people are glad to receive such information and do not hesitate to tell others, and at the same time it adds to the prestige of the party giving the information. It is also a help in properly displaying new varieties and correctly informing the public. The choicest vase of roses can be given 100 per cent more publicity in the window by simple and truthful description.

Reason six. Why the retailer should interest himself in the naming of new varieties. The grower should deliberate very carefully before naming a new rose. While undoubtedly it is a great pleasure to name a rose after a dear friend or a member of one's own family it is not very often the practical way. For after all we are merchants who are fortunate to have one of the Creator's beauties to deal with. If flower buyers would rather purchase the Alice Roosevelt rose than the same rose named Uncle John or Uncle Bill, let us give them what they want and reap the benefit. It never hurt the beautiful carnation Peter Fisher originated when he named it after Boston's illustrious son's wife, Mrs. Thomas W. Lawson, and nothing could be more appropriate than the name American Beauty for that grand flower. When E. G. Hill changed the name of his beautiful red rose from Aetna to Richmond he knew there was something in a name. An incident comes to my mind during my visit to New York last month. While strolling along Fifth avenue I saw quite a throng of people stop and admire three vases of roses prominently displayed in a show case in front of one of New York's large flower stores. My curiosity being aroused I investigated and found the beautiful Richmond rose adorned with a small placard announcing same as the Mme. Sembrich, Uncle John as Mme. Eames; and still another rose, the variety of which I was ignorant of, as Mme. Melba. That being grand opera week I was informed by the exhibitor that they could insure the sale of many more roses by tricking the public. I myself do not approve of that scheme, far the reverse, and I did not hesitate to tell my informant so. But here was food for thought. If it was of so much value to name the rose Mme. Eames, or whatever the name might be, to increase the sales, why should not the retailer who meets the purchaser and knows the value of a name be consulted and his advice listened to?

Reason seven. Why he should devote part of his time to horticultural societies and local florists' clubs to relate experiences with new varieties. My answers to other reasons covers this somewhat. But the fact of the good derived from rubbing elbows with all branches of our business, was

brought home to me during a recent visit to Dayton, O. While taking lunch at the officers' club on the National Cash Register Co.'s grounds, where the heads of the different departments lunch and spend the noon hour, I noted that the greater purport of the conversation was upon their work. I was informed that some of the brightest ideas originate in that recreative hour. Thus it should be at our club meetings. The retail employer should see that his help belongs to local organizations, and there if anywhere, the rose grower is sure to bring his new variety. Discussions on the merits of the same might take place and the grower could get such information as he may need and wish. It wants the closer affiliation of the grower and retailer to help both in their business. It was at one of these meetings in our city that a Chicago grower displayed a vase of the Mme. Abel Chatenay in first class condition. The rose had been partly condemned by some of the retailers who had not seen it at its best. The rose so impressed one of our prominent retailers at that meeting, and he was so in-



GEORGE ASMUS

terested, that his purchases and the demand he caused no doubt was responsible for part of the great popularity of this rose in our city.

Reason eight. Why the retailer should be one of a set of judges and his essays more frequent. By so doing he would come in touch with the local dealer and get his ideas on his wants in the way of supplies for certain seasons and the colors mostly desired. It seems to me, also, that essays would be one of the ways his ideas could be ventilated. By making him one of a set of judges the commercial view of the new rose could be better had.

OBITUARY.

Henry E. Riedel, one of the old-time florists of New York City, died on Saturday, March 31.

William J. Livingston died at his home in Columbus, Ohio, on March 25. He was 75 years of age. Mr. Livingston was a brother of A. W. Livingston, who founded what is now The Livingston Seed Co. of that city.

EASTER PLANTS IN NEW YORK MARKET.

The Easter plant trade is practically over as far as the growers are concerned. Everything of importance has been sold and deliveries are about to begin. The staples of other years are the staples of this year, with slight variations. Lilies are better than last year, as a rule. The percentage of diseased stock is small, and the plants are taller and better proportioned. Of azaleas there is the usual abundance, the impression being, however, that there are no more and possibly fewer than last season. Hydrangeas are excellent; a great many of those grown as rosea are this year indigo blue, and the only explanation anyone can give is that "it is in the soil." Lilacs, genestas, acacias and rhododendrons are seen in usual quantity and quality. The rhododendrons are even better flowered than usual, but the verdict of the growers is that the demand for them is very weak for some reason. Astilbe in various species is generally good. Gladstone and astilboides floribunda seem to be the most approved. Crimson Rambler roses are ready in enormous numbers; there are not so many formally trained specimens seen as in some recent years, the loose bush form being the most common. In color it can safely be said that they have never been so uniformly bright. The growers have Crimson Rambler forcing studied down to a nicety.

Baby Ramblers, so-called, are being extensively grown by most of the plant men. The variety seems to be getting out of its babyhood with commendable promptitude; two feet high is not an uncommon size, and the growths are still traveling upward. The plants are covered with bloom, but suffer in color when in the neighborhood of the brighter-hued Crimson Rambler.

Next to this rose comes Dorothy Perkins, of which a good many are being forced this year, and the pure soft pink of its bloom is being well preserved. Wedding Bells is seen occasionally. Its worst characteristic is that the flowers acquire a rather dull hue after being open a few days; its best characteristic is the remarkable tenacity of its petals which hang on for two or three weeks. Ericas are, as usual, the aristocrats of the Easter offerings. Ventricosa varieties, persoluta alba, cupressina and Cavendishi are most in evidence. Large quantities of bulbous material, such as daffodils (double and single), tulips, Dutch hyacinths, lily of the valley, etc., are ready in pots and pans for the final touch of warm sunlight to open the flowers at the right moment. Daisies in several sorts will be among the popular Easter plants. Queen Alexandra is grown quite generally; few flowers show any sign of being double or semi-double, but the rich color of the disc gives this variety a distinction that meets with general approval. A moderate number of cinerarias, primroses (including Chinese and obconical), pansies, etc., are seen. The usual quantity of Lady Campbell violets in pots is promised.



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PLANTS AND BULBS MOST IN DEMAND FOR EASTER TRADE.

Read before the Gardeners' and Florists' Club of Boston, by D. Lumsden.

There is a something about the approach of the Easter festival that inspires us with zeal and ambition. The very plants themselves seem to anticipate the approach of Easter. The lily, the queen of Easter flowers, appears to wear a whiter gown than at other seasons of the year, as Dame Nature smiles and adds beauty and coloring to all flowers; from the glorious rose to the humble little violet all share in in gladdening our hearts during Eastertide. It also imbues mankind with new hopes and ambition; a spirit of generosity is prevalent on all sides and the wealthy and the humble alike share in trying to make some one happy on that glad day, by sending a box of flowers or a plant with Easter greetings. From ancient times it has been customary to decorate our churches with Easter plants and flowers. Thousands make the first visit of the season to the cemetery, to adorn the graves of loved ones with flowers.

I do not purpose tonight to enter into minute details as to the culture of the Easter plants, as time would not permit me to do so. First and foremost ranks the lily. What would Easter be without the lily? Each year sees more lilies grown than the previous year and every year sees the lily more in evidence. We receive our lily bulbs during the fall months from Japan and Bermudas. Some growers pot them immediately into their flowering pots (which is considered a saving of labor), while others pot the bulbs into 4 or 5-inch pots to be repotted later when well rooted and active growth has commenced, the soil used being a good heavy fibrous loam with a liberal dressing of well decomposed manure with addition of a little sand to keep the soil open. They are then placed in a cold frame covered with about 3 inches of loam, the surface of the soil having been previously covered with a layer of sand or ashes after watering, so that when taken out of the frame the covering loam will not adhere to the pots. They are next covered with leaves, old straw or anything available and shutters placed over them until from the middle to the end of December, when they are then taken out and placed in a house, temperature about 60 degrees night; by that time they should be well rooted and commence to show signs of growth. The grower who puts his bulbs into their flowering pots at first has of course to commence to feed his lilies earlier than the grower who gives them a shift when they are well rooted in the small pots. Unfortunately for the lily grower disease is so prevalent and we have found no means of detecting it until the lily is well in foliage, therefore considerable expense has been added before it is thrown out. Regarding the correct temperature to grow lilies to be in flower for Easter it would be a difficult matter for me to state, as so much depends on the weather conditions, but the main point is to get the bulbs well established or rooted before you commence to force them. All bulbs do not mature exactly the same time in their native habits, so lilies for Easter trade need

a good deal of moving and shifting from house to house, to have them in good shape for Easter. It is far better to err in the way of being a little early than to have to force them during the last minute, as this naturally impairs their keeping quality and they are not so desirable to handle as lilies that have been well on time, and have had a chance to harden up the last week prior to delivery.

Next in importance comes the azalea, which we receive in large quantities each year from Belgium during the early fall. They are then potted up, placed in a cool house kept at a temperature of 38 to 40 degrees, brought in the forcing house (temp. 60 degrees) from time to time as required. The varieties most suitable for Easter trade are Bernard Andre alba, double white, Empereur de Bresil, double rose, Empress of India, rich rosy salmon, Mme. Van der Cruyssen, semi-double crimson, Professor Wolters, single, undulated pink, white margin, Haarensseana or Easter Lady, double, salmon shaded white, Dr. Moore, double, deep rose, a very fine variety. Strange to say, with few exceptions the single varieties of Azalea indica do not sell well with the commercial florist, although they are among the best in coloring and form of flower. Dwarf azaleas on their own roots make pretty plants for Easter and command a ready sale. The varieties are Chas. Enke, single, salmon with white margin, Marie Louise, single, white striped rose, and Firefly, semi-double, crimson scarlet, and a very desirable variety. Rhododendrons we treat practically the same as azaleas with the exception the rhododendrons must be shaded heavily during forcing or the leaves will burn and disfigure the plant. The varieties best adapted for forcing purposes are Blandyanum, deep rosy crimson, Everestianum, rosy lilac, John Waterer, deep amaranth, Kate Waterer, rosy crimson, yellow centre, Mad. Carvalho, blush, changing to pure white, Mrs. R. D. Holford, rich salmon, Prince Camille de Rohan, white with brown spots, and Princess Louise, white, edged with rosy purple. The rhododendron, although such a desirable Easter plant, does not sell readily, a limited quantity only being sold.

The Crimson Rambler rose is a standard Easter plant with us. All strong plants from the field may be lifted during the month of November, potted and kept cool for at least one month, the shoots having been shortened back to about 4 ft. When commencing to force them start slowly, allowing about twelve to fourteen weeks, which will be none too much time to allow them to be in nice shape for Easter. I may here state it is not policy to allow the shoots to run up straight; you get better results by training them around stakes in the pots; they make more even growth and much better shaped plants. The Baby Rambler will also become a very valuable addition to our Easter plants, treated practically the same way as the Crimson Rambler, with the exception of not being trained round the stakes; if judiciously pruned before starting it needs no stake at all, and being of a very floriferous nature and compact growth makes a handsome little plant which will sell at sight. In Hybrid Roses in pots for Easter we have to mention the following va-

rieties: Ulrich Brunner, Magna Charta, American Beauty and Gen. Jacqueminot.

Hydrangea Otaksa makes a nice plant for Easter, but sale for same is only limited. Astilba Japonica and varieties better known as spiraea is also grown as an Easter plant, also in large quantities for cutting for Memorial Day. Lilacs are sold in quantity for Easter trade, the varieties most suitable for forcing being Marie Le Graye, white, and Chas. X, purple. Acacia armata or paradoxa is a desirable plant; when treated like azaleas can be forced readily for Easter.

Cytisus, better known as genista, although we cannot class it as a good house plant owing to its flowers and leaves dropping caused by the dry air in the room, sells well as an Easter plant. The deep yellow color of the flowers, as well as the profusion in which they are borne tempts the buyer. The variety racemosus is the best seller; canariensis is a trifle deeper in color. I would not be doing my duty if I omitted everybody's plant, the geranium, from my list of Easter plants. With due respect to all other plants the geranium stands without a peer in its class and many persons who cannot afford to pay the price for a lily will gladly pay 25 cents for a geranium for Easter day. Geraniums made up in bulb pans about four plants to a pan, with nice flowers, make a very attractive Easter gift and command ready sales. The geranium is grown in large quantities to be presented to the scholars of the various Sunday schools on Easter Sunday.

In bulbs for Easter we find large quantities of the Dutch hyacinths grown from five to a dozen bulbs in a pan and when well grown and not too fully bloomed make an attractive Easter plant. The following varieties are among the best: Gertrude, rosy pink, Norma, fine pink, La Grandesse, pure white, La Innocence, pure white, Chas. Dickens, dark blue, and Grand Maitre, porcelain blue. Tulips in variety in pans also command a ready sale, the following being a few of the best single tulips: Belle Alliance, scarlet, Couleur Cardinal, bronze scarlet, Duc Van Thol, scarlet, Keizerkroon, bright red with broad yellow edge, La Reine, pure white, Mon Tresor, golden yellow, extra large flower, Rose Gris de Lin, pink, and Yellow Prince, yellow. In double varieties we have Coronne d'Or, yellow, La Candeur, white, Murillo, pink, Salvator, rose, and Tournesol, red and yellow. In narcissus, Von Sion takes the lead, and for cutting, also pan work, it is a good variety to handle. Bicolor Horsfieldii, Golden Spur and Princeps are all valuable varieties. Lily of the valley both cut and in pots and pans is invaluable for Easter decoration.

There are other useful Easter plants I have not mentioned, including various made-up combinations of flowering plants in pots and pans that time will not permit me to speak of. Any plants well grown in flower at Easter will find a ready sale. We sometimes hear it remarked when we see well-grown plants brought into our cities "That grower is quite a genius," and I think the title is truly applicable to a good grower, for as Carlyle defined the word, "Genius is at first little more than an immense capacity for taking pains."

DENDROBIUM DOMINIANUM.



Named in honor of Mr. Dominie who for a lifetime in the grand old establishment of the Veitch's of London, was one of the earliest and most ardent orchid growers and hybridists. *D. Dominicanum* is a garden hybrid, a cross between the grand old standard species *D. nobile* and that now almost extinct choice variety of *D. Linawianum*. This hybrid is one of the most beautiful varieties of the *D. nobile* type, very free flowering and a very dainty and delicately colored orchid, one which should be more cultivated than it is. It would make a very profitable florist's orchid not only for cutting purposes but to sell in a pan or crib suspended in the florist's window where it would certainly draw admirers and ready purchasers. It is of easy culture requiring the plain and simple treatment of *D. nobile*, which also, is a most profitable orchid for this purpose.

D. Linawianum in habit of growth resembles *D. nobile* but so distinct as to be easily recognized. Flowers nearly

white in the centre, sepals and petals being pale rosy lilac; the lip is small, white with two purple blotches in front, wholly purple in the throat. It is a native of China and Japan.

Another of the smaller flowering commercial orchids and which is very profitable for the florist, not for cutting purposes but as a plant, is *Cattleya citrina*, an inexpensive but very interesting showy sweet-scented orchid with its curious and rather unique form and habit of growth. Suspended upon pieces of cork bark or on blocks its glaucous foliage and citron yellow to deep yellow flowers with white fimbriate fringe, throwing a fine large bloom from every growth, then the white pseudo-bulbs, makes this a regular little gem of an orchid for the florist's window. These plants when in bloom are bound to draw the attention of lovers of flowers; they are not expensive and can be sold at reasonable prices and will pay well for growing them.

H. A. SIEBRECHT.

The remarkable call for the Crowe-anum fern in New York City is evidenced by the fact that John I. Raynor is disposing of three to four thousand a day regularly for Mr. Crowe.

SEASONABLE PREPARATIONS FOR EASTER TRADE.

Extracts from a paper read before the Detroit Florists' Club by Hugo Schroeder.

Though far from being a grower myself, I want to make a few remarks that I hope will aid him in his preparation for Easter. It is the man who grows the stock who has to do the most planning; in fact, now is the time to make notes to assist you in your selection of what to grow for 1907.

Lilies should come in for the first consideration. As to the number of blooms on a plant or its height, these have always seemed to me as depending merely on good or bad luck, but plants 2 1/2 to 3 feet high, with from 5 to 8 good blooms in different stages, sell best in this locality. It is well to have some planted into 3-4 or azalea pots, say from 3 to 5 plants in a pot, and well seasoned by keeping them rather cool the last week. About twenty-five per cent. of the lilies are sold on Wednesday before Easter; as these are for church use, the tall plants are generally preferred.

Azaleas are always good sellers; the dwarf varieties, of which Firefly is probably the best, are becoming very popular. In bulbhouse stock we have always found a ready sale for lavender, pink and white hyacinths (red are a fizzle). In tulips, Murillo is the best with Tournesol a close second, followed by Vermillion Brilliant and Proserpine.

American Beauties in pots sold very well last year, as did Crimson Rambler and Baby Rambler. Lilacs, hydrangeas, rhododendrons, daisies, genistas, spiraeas and a variety of other stock always help, for though nine out of every ten people want a lily, if one has no variety to show, the lily will not sell either. Every pot should be washed, and such plants as hyacinths, lilies, etc., properly tied up before leaving the greenhouse. The wholesale grower who follows this rule will also find a greater demand for his goods in consequence.

If you have any temporary benches or shelves to build, get them finished so that on Monday or Tuesday before Easter prospective buyers will not have to bring guides along to assist in scaling lumber piles. Palms, rubbers, ferns and other plants which do not meet with so much demand at this time should be set aside to give as much room as possible to blooming plants. While it would be foolish to have all or even half of the Easter stock brought into the store or showhouse the first part of Easter week, it is a good plan to have a nice assortment on hand early, as very often a customer sees some plant that strikes his fancy and, though he was only looking around, places an order at once. As, no doubt, you will have some green hands, mark the price on all plants and baskets in plain figures.

Pay particular attention to the show windows, changing the display several times during the week. In spare moments get ready a good supply of boxes, paper, tags, twine, etc. Boxes containing violets or cut flowers should be rearranged with the same care during the Easter rush as at other times, wrapping each box, to prevent it from becoming soiled in

delivery and for protection against frost.

One great item of extra expense on special days is extra help, generally very unsatisfactory help at that, but we must have it. If possible get people who have helped you in former years, not only because they will have had some experience, but you also know just what they are most suited for. It is good policy to hire extra help at so much per hour. Appoint some one to keep record of their time, and steer clear of friends or relatives, as it is hard to get the work out of them.

Place advance order for cut flowers early. If there are any baskets lying around from last year, clean them up and fill with suitable plants; also, have a nice assortment of new baskets, besides a good supply of pleated wax paper and ribbon. Under no circumstances will we bother with crepe-paper again. It is both unsatisfactory to yourself and your customer, as the dampness soon spoils it. The pleated paper is very quickly adjusted, and not so easily affected by water. Various colored mats also come very handy for trimming. By first moistening them they will not break and are much more easily manipulated.

Make arrangements for extra wagons early. It is absolutely necessary to give a great deal of attention to the delivery or shipping department, as many a good customer has been lost through mistake in delivering.

Leaving the shipping all in the hands of one man who does nothing else for the three or four busiest days is the only way to have it attended to satisfactorily. This clerk should be some old employee who not only knows the city from A to Z but knows how to handle drivers and errand boys and will give every detail his undivided attention. We generally manage to have good use for five wagons and three or four errand boys during the holidays, and acting in the capacity of shipping clerk, I have adopted the following system:

I select some convenient place where all sold articles are placed by the salesmen, and from time to time arrange each variety of plant by itself, with the tag in plain view. Then I have a cabinet made of eight boxes, just large enough to hold the order slips nicely. In appearance it is similar to a spice cabinet. It bears the following labels: Today, Car, North, East, West, North-east, North-west, and Special. For the orders to be delivered, say, Saturday, the slips are put into the Today box as soon as taken. Every morning when I take the shipment out of the Today box and distribute it to the other seven boxes, as, for instance, North, Car, etc.

When I take the shipment, I check off the corresponding slip, then lay the slips in the order to be delivered and write in route book, every other page of which is tissue, using copying paper. The heavy sheet is torn out and the tissue is placed in each auto. The slips are fastened together and marked with a number corresponding with the route, so that they can be taken back to the respective slip.

For plants in the city of



EXECUTIVE COMMITTEE, S. A. F., AT DAYTON, OHIO.

plants, particularly lilies, we have had made a number of boxes of half-inch boards, 15 inches by 15 inches by 6 inches deep, inside measurement, divided into four compartments. These are kept in the wagon, and help to keep plants from falling over, the plants being placed in the compartments. We also use paper hat boxes for large, trimmed-up pots, to protect paper or matting.

NEWS NOTES.

W. E. Lacey, whose greenhouses at Victoria-Bismark, Northampton, Mass., were destroyed by fire, is making arrangements to rebuild.

E. E. Fairbanks, who recently sold his greenhouses at Athol Centre, Mass., to C. H. Smith, has bought them back, and will remain in Athol.

E. J. Fancourt, that modest yet energetic representative of S. S. Pennock, has just returned from a six weeks' trip and reports that business in the supply and cut flower line was never better.

The building committee of the Florists' Exchange, Baltimore, Md., has commissioned Architect E. J. Laferty to prepare plans for a new building on their newly acquired property, corner of Franklin and St. Paul streets.

Representative Allen of Maine, introduced a bill in Congress last week to give protection to the ornamental horticultural products under the trade mark laws. The Department of Agriculture was placed on record in favor of the measure, which gives the producer of a new variety the right to name it and to secure a trade mark on the name which will protect his rights for twenty years in the production.

SAN FRANCISCO NOTES.

A couple hundred smart people from the State of Washington, including the Governor, were in San Francisco last week seeing the sights. The California Promotion Committee gave them a reception in the palm garden of the Palace Hotel. Prominent growers and florists, members of the committee, procured carte-blanche authority to enhance the beauty of the palm garden, and it is sufficient to say that choice flowers galore were tastily arranged and a rich sufficiency of floral creations dotted the garden here and there.

Growers and florists belonging to San Francisco's Outdoor Art League, inform me that league resolutions will be before the next meeting of the Board of Aldermen, requesting that a bond election be called, that the question of the acquisition of Telegraph Hill by the city may again be submitted to the vote of the people. Telegraph Hill is the first high elevation, barren and craggy, to meet the sight of visitors to the city, and the purpose of the league is to lawn and terrace it and cover it with choice plants and flowers.

Mrs. Timothy Hopkins is the most successful, and I believe, the largest, violet grower in the State, famous for its violets. One of the sights of California that no tourist, whether of the private car or personally-conducted variety, can afford to miss is the acres and acres of violets that Mrs. Timothy Hopkins grows for the market.

BUSINESS CHANGES.

James Hart, wholesale florist, has moved from West 30th street to 103 West 28th street, New York.

C. Besold, Mineola, N. Y., has leased his greenhouse plant to parties who will take possession July 1. Mr. Besold will go abroad hoping for restoration of good health.

THE CARNATION.

Read by A. H. Seckers before the Morris County Gardeners' and Florists' Club.

The carnation, as it is today, has proved itself a public necessity, and as such should be handled and treated accordingly. That it has rapidly gained in popularity, and is the equal, or shall I say the more successful rival, of its fair competitor the rose, is due largely to the fact of its keeping qualities, fragrance and adaptability, for it is found first in the expensive social function and foremost in the workingman's home.

The carnation as I remember it ten years ago, to the present day production has made rapid strides ahead, and although Mr. Ward may claim a 1000 years for each added inch, the last one seems to have appeared in considerably less time.

What a contrast we find between Portia and Robt. Craig or Victory, Daybreak and Enchantress, Lizzie McGowan and Lady Bountiful or Queen! Yet even these old favorites are not to be despised, for they had in them the blood with which the hybridizers have been enabled to produce the present day wonders.

In looking over an exhibition of new carnations and noting the difference between the various kinds, I have often thought that growers will one day be grading the carnation, as the rose, into fancy, first, standard and common classes. In the fancy class we have a type of flower which can be truly likened to the racehorse, and as surely as we strive after a higher ideal, and try to improve on the existing improvements, so will the treatment of same require to be given accordingly.

But as the majority of us are dealing with present day varieties, and not with what is to follow, perhaps a few remarks about those grown and proved successful may not be amiss. It is easy to select those kinds which meet with popular approval among the growers, not because of their color or fragrance, but because the grower is able to adapt himself readily to the requirements of his stock. If this is not so how is it that one variety does so well with one and shows up so poorly with another? Is it climatic conditions or treatment that brings Cardinal to the fancy class in Canada, while in our own neighborhood it is almost useless? Yet I fail to find one man who is complaining of Enchantress or Lawson. The same can be said of Prosperity, in the first class, and although now beginning to age, I do not doubt but what this variety can be brought to pay for its keep. Having had to do with a house of this kind the present season, I must say that results are more than satisfactory, and believe that with early propagated cuttings and grown from then until benching, in July, in pots, success may be had. I find, too, that it is a little of the racehorse type, a trifle stubborn, and needs the "jolly-ing" which a little extra heat may give it to bring it along. Wherever the plants are handicapped for want of heat, there we find the less flowers. This defect can be plainly seen in the house just mentioned, where one end

is always four degrees warmer than the other, besides being subject to drafts when going in and out, the house being apart from the others, causing the plants to be backward all winter, whilst at the warmer end no trouble is had to produce fancy flowers, long stems and clean foliage.

Enchantress and its sports, the various Lawsons, Roosevelt, Queen and Harlowarden are all varieties which can be depended upon to produce good marketable flowers, and if handled right, can be brought to a successful paying investment. The question of soil is a serious one for the majority of growers, and very often considerable outlay is necessary for the procuring of the right kind. What is the right kind? Each grower seems to have his own ideas about that. One successful man, located near Buffalo, with an area of 20,000 feet of glass, has used the same soil continually for the past seven years, mixed, of course, with manures and fertilizers. With discarded rose soil, thoroughly mix this outside with lime, bonemeal or cow manure, proportionately, I venture to say that no bother would be had to produce good flowers, providing good care and treatment was given same.

In the matter of planting, the different varieties in the benches have done best with nine inches between the row, and seven inches apart in the row. This applies, of course, to medium-sized plants, and to those which grow compact, and most of them can be made to do so by the usual method of wire and string support. In planting these distances apart, careful watch will have to be kept for red spider, and to the beginner in carnation growing I would advise planting little further apart each way.

During the growing season care should be exercised in feeding, as some varieties require considerable more than others, and if overdone—well, it simply can't be undone. I would recommend the frequent application of pure bonemeal, as it can be handled far more easily and is cleaner than manure. The one advantage I find this method has over manurial waterings is because each plant gets its own share and can absorb the nourishment at leisure, whilst a heavy douche given at least once a week with manure water, besides occasional clear waterings between times, has a tendency to keep a good many plants too wet, as I have yet to find the greenhouse so situated that all the plants are ready for water at the same time. Consequently, if you are soaking the plants that are wet with your weekly feed, the result is soon apparent, as the benches will be empty. I would not in any way despise top dressing of cow or other manures, and consider it a decided advantage in giving a change of diet; but, as soon as the manure goes on the bench, your troubles commence with weeds, mites, sour soil and worms, and, incidentally, I might mention stem rot.

The past season has been a very poor one in regard to propagation, owing, no doubt, to the long spells of cloudy weather making the ground soft. But not all the blame can be laid to that alone, as in a matter of so much importance the question of experienced help arises, and this part of the work should be undertaken by an efficient man. During the last few years it has been (perhaps, I might

say) my misfortune to have to deal with green help, and whilst I have learned something, the knowledge has been derived after losses which could have been avoided. When the operation of trimming the cuttings commences, take the time to give careful instructions to the uninitiated—yes, and to some of the so-called "experienced"—not to destroy the outer skin or bark at the base of slip, thus exposing to the water and air the soft pith, which has no power to withstand the elements and, consequently, after four or five days will have rotted.

In putting same in the sand, too, the same care should be given to see that the bottom of each cutting rests firmly on the sand, for unless these two, the bottom of cutting and the sand, come directly in contact with each other the capillary action is unable to commence its work, and as the action, which is all on the side of the cutting, is not a magnet to draw the moisture up, the result is apparent in a dry cutting.

The split carnation is a topic to which one might perhaps be able to devote an entire paper. I might say the two greatest causes are too sudden changes in temperature and the lack of sunshine. The first can be avoided by constant attention to ventilators and boilers, so that in cold, bright days of midwinter, when the fires are low, care should be taken to have pipes hot enough to let temperature drop easy, as the sun departs. The latter cause can be helped somewhat by giving all the air possible, consistent, of course, with common sense, so that the plants may become strong, also in the selection of stock for propagating, to select only the strongest and best cuttings, as this trouble of splitting is, I believe, hereditary; and whilst some varieties will split, however good you treat them, we can keep down the percentage if we handle them correctly.

The every-day varieties, I find, do best in a night temperature of 54 degrees, and in the day, 68 or 70 degrees, when the sun shines. On cloudy days, air is given when the thermometer reaches 60 degrees, according as the weather is boisterous or calm.

The cutting and packing of the carnation for the market is work that should be done by experienced help, as upon this depends the success of your enterprise. Try and arrange, if possible, to have all flowers in water at least twelve hours before shipping, and keep them in a cool place; and now that the warm days are approaching, our flowers will be in a better salable condition and last longer when the customer purchases them if we can find it convenient to cut them first thing every morning, when they have recuperated during the night.

We all know that stock shipped in is not handled with the best of care by the express agents, so exercise judgment in packing the same firmly in strong, clean boxes, so that when jolted backwards and forwards the neck of each flower will not be broken, as I have seen many treated that way. This will save you lots of unnecessary worry and arguing with your agent, and will enable him to secure better prices, and in time your reputation will become established as a first-class grower, and by attending to even the smallest detail, sooner or later success will be yours.

Rose Frau Karl Druschki



From Catalogue of Ellwanger & Barry.

EASTER LILIES

\$12.00 per 100

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CARNATION NOTES.

(Extracts from a paper read before the Chicago Florists' Club by Jos. F. Klimmer.)

By this time every carnation grower should have his plans ready for next season; he should know which varieties he intends to plant next fall and what varieties he has to discard. There are quite a few growers, like myself, always ready to buy a reasonable amount of those liberally advertised novelties, and now after trying them for a season, the question is, did they give satisfaction?

Last August I planted 410 plants of Fiancee in the bench. . . . They produced in October 625 first class flowers; in November, 169; in December, 69; in January, 13; and in February, 4. This is a rather stunning average, but I believe it is to a great extent my own fault, because I treated Fiancee in the first week in November to a fairly liberal dose of manure and bone meal, and in return got an immense crop of fantastic-looking splits which nobody would buy. I wonder will we ever learn to let well enough alone? I am convinced that if I had left the fertilizer off, 65 per cent. of the splits would have been salable flowers, and Fiancee would have been a fairly well paying proposition at least up to Christmas.

Cardinal produced quite a few black and distorted flowers, but they also gave me a very liberal amount of good, first class flowers, with fairly strong stems. We had about 30 plants which kept entirely clean of rust and certainly came up in every respect to the introducers' description. Some of the plants I have now in 4-inch pots will be planted out early as possible to give it a trial as a summer bloomer.

Lieut. Peary is, in my estimation, the best of the last year's introductions. It is a strong, upright grower, steady and even bloomer, makes no surplus grass, and is entirely free from rust or any other disease.

In scarlet I grow Flamingo, Estelle and Cardinal and in addition will also have 300 each of Robt. Craig and Vic-

tory. I need Estelle for a good common scarlet in the winter, and early in April I take up the old plants from the bench, cut them back severely and then plant them out for summer blooming. Flamingo is considered by our Chicago retail florists the best scarlet winter carnation on the market. It has been a failure in a good many cases, but in most cases I believe it is the treatment. The plants must be good and strong when planted out; do not pinch it back any more than absolutely necessary; after August first pick off all buds high up on the stem until October 20th, then let them bloom all they can until March 15th.

Flamingo wants to be planted in sandy soil or soil with a liberal quantity of half-rotted horse manure to make it porous; give it plenty of water, but do not feed at all, because feeding is likely to spoil the keeping quality and produce more splits. As an explanation I can state that the first lot of 500 I bought in January, made large and elegant plants, that came in bloom in August; I pinched those flowers off before planting them in the house and let them come into bloom again in the latter part of September, but had to pick those flowers off because they would not keep, but in the latter part of October, when the weather got cool, they improved rapidly and by Christmas cut an average of 13 flowers per plant. By March 10 we had an average of 18 flowers. Just about then the flowers get spotty and the plants grew so much to grass as to be almost entirely worthless. Seeing that my first lot did so well, I bought 200 more in the fall, all good healthy plants from the field, but considerably smaller than my own. These plants had from the 20th of September on the same treatment, were planted in the same soil and in the same bench, and I did not cut a flower of those 200 plants until Jan. 11, and then they only averaged quite 6 flowers per plant up to March 10, when they also gave out. Another important point is in disbudding. In rubbing off the bud next to the flower, the main stem is very liable to be injured, and the flower will have a peculiar crooked neck; since I found it out we let the last bud on until the flower is cut and the trouble disappears.

For white, I shall grow Lady Bountiful, Dorner's White Perfection, Lieut. Peary and Vesper, and will discard Albatros and the Belle. In light pink, I shall grow Enchantress, discarding Morning Glory. Possibly Genevieve Lord may have to make room for Helen Goddard, although the former has proved satisfactory. Mrs. Lawson will be discarded in favor of Nelson Fisher and Pink Patten. Pink Patten, I believe, will be in another two years a warm competitor of Mrs. Thomas W. Lawson. For variegated, M. A. Patten seems to be the best with me.

This completes my list for next season, and I hope it will turn out satisfactory, though I still wish the Lord would throw a sport or a seedling my way that has the clear color of the Marquis and the general growth, habit and keeping qualities of the Patten.

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Primula obconica, Red, \$0.30	
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Ralph M. Ward & Co.
 2 West Broadway, New York.

SEED TRADE.

It looks now very much as if what bid fair to be one of the best seed seasons in years, will turn out to be only an average business. The severe winter weather from March 10 to this writing, has put a sudden stop to the splendid run of mail orders all the trade were receiving. Reports from many sections confirm the above—from ten days or so behind orders, comes the contra of already letting extra hands go.

CATALOGUES RECEIVED.

Arthur T. Goldsborough, Washington, D. C., new berries.

J. N. Kramer & Son, Cedar Rapids, Ia. General seed and plant catalogue.

Bay State Nurseries, North Abington, Mass. Trade list of fruit trees and herbaceous plants.

"Hardy Trees and Plants," is a profusely illustrated catalogue issued by the Peterson Nursery, Chicago.

S. C. Moon, Morrisville, Pa., wholesale trade list of ornamental trees, shrubs and hardy border plants.

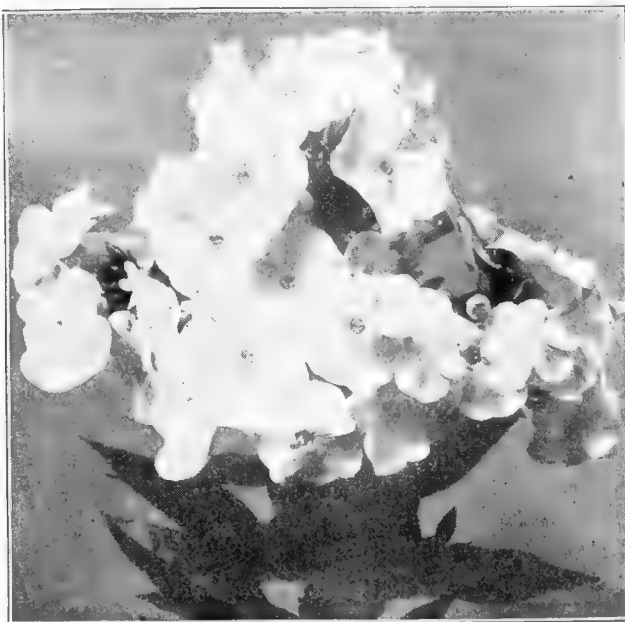
Julius Heurlin, South Braintree, Mass. Catalogue of herbaceous plants and coniferae. This catalogue is a gem in every way. The illustrations are fine throughout.

Foley Manufacturing Company, Chicago. Materials for greenhouse construction. Illustrated with numerous half tone engravings showing that the Foley construction is popular in all sections of the country. Send for the book.

Manning's Monographs, No. 2, published by J. Woodward Manning, Reading, Mass., is devoted to hardy rhododendrons, azaleas and mountain laurel. It is full of useful matter compiled from various sources, and the author's own extensive experience. The lists of rhododendrons will be found especially valuable.

"How to Grow Asters," by James Vick's Sons, Rochester, N. Y., is considerably more than a catalogue. It is a twenty page pamphlet full of practical instruction covering the subject of aster growing in all its phases. The various chapters treat of sowing the seed, planting out, cultivation, problems and diseases, destructive insects, etc., and a classification of early, medium and late varieties is applied. This useful booklet may be had for the asking.

The annual report of the Cleveland (Ohio) Home Gardening Association for 1905, shows a steady growth of interest in the five years of its existence. A woman curator of school gardens has now been appointed. Last spring, 389,895 one-cent packets of seeds were sold to the school children. A city department of forestry has been established through its efforts.



HARLY PHLOX PANTHEON.

DREER'S HARDY PHLOX

We offer in strong, field grown plants that were cut back early in the season and potted up into three inch pots, and which will give an abundance of blooms this season, much superior to young, newly propagated plants, such as are generally sent out in spring, the following list of choice varieties.

Bridesmaid. Pure white with large crimson eye.

Beranger. White, suffused pink, crimson eye.

Bouquet Fleuri. White, with deep rose eye, each individual truss a complete bouquet.

Champs Elysee. Fine rich purplish crimson.

Coquelicot. Bright orange scarlet, carmine eye. \$1.00 per dozen; \$8.00 per 100.

Colibri. White with deep rose centre.

Eclairer. Purplish crimson with light halo, very large.

Esclarmonde. Lilac, mottled white, deep rose eye.

Eugene Danzenvillier. Lilac with white edge and centre.

F. G. von Lassburg. The finest white. \$2.00 per dozen; \$15.00 per 100.

Graf von Ungerer. Light rose, crimson eye.

Jeanne d'Arc. A fine late white.

La Soleil. Salmon rose with light centre.

M. Gladstone. Soft rose, large flower.

Marquis de St. Paul. Deep rose, overlaid salmon, crimson eye.

Moliere. Salmon rose, deep rose eye.

Mrs. Jenkins. A fine large pure white. \$1.25 per dozen; \$10.00 per 100.

Obergartner Wittig. Bright magenta with pure red eye.

Offenbach. Bright rose with large white halo.

Otto Thalacker. Magenta crimson.

P. Bonnetain. Salmon rose. 75 cents per dozen; \$6.00 per 100.

Pantheon. Deep salmon rose, free and effective.

Professor Schlieman. Bright lilac rose with carmine eye.

Pecheur d'Islande. Soft salmon red, with white centre.

Selma (new). Beautiful light rose pink with large aniline red eye. large flowers. \$2.00 per dozen; \$15.00 per 100.

Semiramis. Purplish magenta.

Sunshine. Deep salmon pink, with deep rose eye.

Simplon. White suffused with lilac and dark rose centre.

Price. Any of the above (except where noted), 75 cents per dozen; \$5.00 per 100; \$40.00 per 1000.

Phlox Subulata—Moss Pinks. Alba, Atropurpurea, Lilacina, Nelsoni, Rosea and Bridesmaid, strong field grown plants 75c. per doz.; \$5.00 per 100; \$40.00 per 1000.

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3½ inch Pots 4-5 leaves	\$2.00	\$15.00
4 " " 5-6 " "	4.50	35.00
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The introducers of **CRAIG** fill all orders on time and send out only healthy, vigorous, well grown selected cuttings taken from blooming stems.

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We can fill it promptly.

\$3.00 for 25	\$12.00 for 100	\$50.00 for 500
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Positively free from mealy bugs.

Ageratum Stella Gurney, Princess Pauline,
Salvia Splendens, German Ivy, 75c. per 100
\$6.00 per 1,000

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Pot Geraniums, 1 to 3 buds and blooms,
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From our Well Known Strain. None better
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Daisies (Bellis) in bloom, \$1.00 per 100.

Primula Obconica in Bloom, 5 inch pots.
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d' Lyon, yellow, \$2.00 per hundred.

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Dracæna Indivisa, 2½ in., 4 in., 5 in., 7 and 8 in.,
per doz., 75 cts., \$2.00, \$3.00, \$4.00 and \$5.00. Per
100, \$6.00, \$15.00, \$20.00, \$30.00 and \$40.00.
Vinca variegata, 4 in., 5 in. Per doz., \$1.50, \$2.00.
Per 100, \$12.00, \$15.00.
Dahlias, tubers per doz. 75 cts., per 100, \$6.00.
Variegated Century Plants—prices and sizes on
application. Cash Please.

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500,000 COLEUS

Verschaffeltii, Golden Bedder and fancy named varieties.

Rooted Cuttings, 60c. per 100, \$5.00 per 1000 Cash.

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Three Sterling Carnation Novelties

Winsor, White Enchantress, and Helen M. Could

There is nothing about any of these varieties that we wish to conceal; therefore, we cordially invite all carnation growers to pay us a visit. Come at any time.

WINSOR—Winner of Lawson Silver Medal.

This is sure to prove a winner. Nothing approaches it in color, which is a clear silvery pink—a shade between Enchantress and Mrs. Thos. W. Lawson—and much more beautiful than either. In fact, it is just the shade that we have all been trying to get. The color will make it sell in any market. The stem is just right. The flowers are considerably larger than Lawson and much better shaped. As a grower it has everything that can be desired. So far we have not seen any large-flowering variety quite so free as Winsor.

WHITE ENCHANTRESS.

A pure white sport of Enchantress, at once the most popular and most profitable carnation grown today, on account of its size and stem and freedom with which it blooms. White Enchantress is identical in every respect but color. Those desiring quality as well as quantity will find it in White Enchantress.

HELEN M. COULD.

This is a beautiful variegated sport of Enchantress. The ground color is a lovely shade of clear pink, the variegation carmine, making an exquisite combination of colors, besides being something distinctly new. At a short distance the variegation does not show at all, the general effect being a beautiful shade of dark pink. Growth, habit, size, and stem are the same as Enchantress.

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NEW Skyrocket, (scarlet) a good thing.....	\$6.00	\$50.00	SPECIAL. 20,000 Extra Strong 2 inch Mrs. Thos. W. Lawson.....	3.00	25.00
NEW Daybreak Lawson or Melody. Will be sold next year at same price by other firms.....	12.00		Prosperity, same class of stock, same price.....		
NEW Glendale, variegated. The first variety to supersede Mrs. Bradt; marking similar but improvement in growth, freedom and length of stem.....	12.00	100.00	Mrs. M. A. Patten, from soil.....	3.00	25.00
NEW Jessica, variegated. (Weber) a fine thing. 2 inch plants, strong.....	14.00		Harlowarden, crimson, from sand.....	2.00	15.00
			Prosperity, from sand.....	2.00	15.00
			Mrs. Thos. W. Lawson, from sand.....	2.00	15.00
			Lady Bountiful, from sand.....	4.00	35.00
			Variegated Lawson, from sand.....	5.00	40.00

ROSE PLANTS (from 2 inch pots)

	per 100	per 1000		per 100	per 1000
American Beauties	\$6.00	\$50.00	Mad. Chateaux, Lady Bridesmaid, Golden Gate.....	\$3.00	\$25.00

CHICAGO CARNATION CO. - - JOLIET, ILL.

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RICHMOND ROSE 2 1/4 in.	\$12.00	\$100.00
KAISERIN " "	4.00	35.00
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INNES & McRAE, - Cheswick, Pa.

Some People have taken our advice as published in these columns recently. **My Maryland**

ly and are buying for trial. We reiterate here—it it succeeds with you as it does with us, it will prove the best white carnation you ever grew. Despite the variety's apparent failure in several places, we strongly advise all growers to give it a trial. We have been frank about its faults as developed in other places. We doubt if these will develop in many places.

Jessica we believe, will succeed generally and will prove to be the best red and white variegated ever disseminated. Few varieties show as strong constitution as this one does and it is a wonderful producer. Extra fine stock of both varieties ready now. R. C., \$2.50 per doz., \$12.00 per 100. \$100.00 per 1000. Pot plants, \$3.00 per 100 extra.

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Impatiens HOLSTII without doubt one of the best varieties in years, being a continual blooming plant of scarlet flowers, excellent for pot culture as well as for bedding, sells on sight. \$1.00 per dozen; \$6.00 per 100. Try it, and you won't do without it.

CHRIST. WINTERICH
Defiance, O.

EASTER PLANTS.

(Robert Craig Before the Florists' Club of Philadelphia.)

On April 9, 1888, just eighteen years ago, I read a paper before this club, in which I alluded to the Easter plant trade as having become the most important of the whole year. I recited the fact that there had been a great advance in the quantity of plants grown as well as in the increased variety from the time, only a few years back, when callas, geraniums, mignonette, violets, etc., were the chief staples. In that year, 1888, I mentioned *L. Harrisii*, *L. longiflorum*, *hydrangeas* *Otaksa* and *Thos. Hogg*, *azaleas*, *deutzias*, *genistas*, *Astilbe Japonica* and hybrid roses as the chief staples. All of these are still grown, only in larger quantities, and the general culture is better; finer specimens are grown. Since that time we have had several notable additions to the list of Easter plants. I think the *Crimson Rambler* may be mentioned as the most important; it is still a very valuable plant; the much heralded *Baby Rambler*, while very valuable as a bedding rose, is not so good for Easter purposes, especially in large specimens. *Dorothy Perkins*, the pink *Rambler*, is fine, and has come to stay. In the same class may be mentioned several of Mr. Walsh's new hybrid climbers, particularly *Lady Gay*, which is a superb thing. A German rose called *Leuchstern*, a single pink with ring of white inside and the centre yellow, which I saw in New York the other day, impressed me very favorably; the foliage was fine and the blooms pretty and abundant, and it seemed to be a good keeper, not easily shaken off. A few other varieties of roses are fine for Easter; chief of these is *Magna Charta*, Mrs. John Laing; *Frau Karl Druschki* promises to be a good white, although it has hardly had a fair trial yet.

A very desirable new plant is the *Marguerite Queen Alexandra*; it makes a fine pot plant.

In the *spiræas* we have had several improved varieties; the best one, all things considered, is *Gladstone*.

Bougainvillea Sanderi is another very valuable Easter plant and if the wood is properly ripened will flower most profusely in all sizes of plants from those in four-inch pots, suitable for basket work, up to very large specimens.

Cineraria stellata, of the improved compact growing, fine colored varieties, is a very showy plant but still capable of further improvement by careful selection of seed from those varieties most suitable for store use.

A plant which I have not seen with the Philadelphia growers, but which is well done in New York, is the *boronia*, which bears its globular pink-purplish flowers in great profusion.

Another plant worthy of culture is the *Lilium speciosum rubrum* and *album*, which are valuable either for cutting or as pot plants; they are easily obtainable at Easter from cold storage bulbs. Another plant deserving of culture is the *Deutzia Lemoinei*, which was tried and discarded several years ago by several of our growers as inferior to *Deutzia gracilis*, but which is now proved to be valuable by several growers, particularly as to the

durability of its flowers, which do not drop as easily as those of *Deutzia gracilis*; the chief point in the culture being the lifting by first of August or before, so as to have the pots full of new roots before cold weather; this method is necessary also with *D. gracilis*.

There has been introduced to this country this year a valuable new *azalea* named *Julius Roehrs*. This will undoubtedly become a leading standard variety; it is of the same general character as *Madame Vander Cruysen*, but of a richer, brighter color. *Rhododendrons* are now largely grown, the best new one that has come to my notice is *Red Camille de Rohan*.

As we have had from time to time valuable additions to the list of Easter plants, so we may continue to expect them. We are promised a new pink *spiræa* for next year, of a lovely shade of color, for the stock of which one thousand pounds is reported to have been refused.

The growing of plants for Easter involves much extra work in the moving from house to house as the weather changes, so as to have everything "just right" at the one time, the compensation for this extra work being that there is generally a demand for all good plants at a fair price.

Inclosed is check for \$2.00; please enter two subscriptions to *HORTICULTURE* both to commence with the superfine issue of last week, the special Rose Number, for which please accept our hearty congratulations and our request to keep it up, we enjoy it and appreciate it so thoroughly.—D. B.

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ROSES												
Am. Beauty and Edgely Fan. & Sp.	40.00	to	50.00	25.00	to	35.00	25.00	to	30.00	20.00	to	35.00
" Extra.....	25.00	to	35.00	15.00	to	20.00	15.00	to	18.00	10.00	to	15.00
" No. 1.....	8.00	to	12.00	10.00	to	12.50	10.00	to	12.00	6.00	to	8.00
" Lower grades.....	.....	to	.....	5.00	to	8.00	5.00	to	8.00	2.00	to	5.00
Bride & 'Maid—Fan. & Sp.....	12.00	to	15.00	8.00	to	10.00	12.00	to	.....	6.00	to	8.00
" Extra.....	8.00	to	10.00	5.00	to	6.00	8.00	to	10.00	4.00	to	6.00
" No. 1 and Lower gr.....	4.00	to	6.00	.....	to	3.00	3.00	to	5.00	1.00	to	5.00
Liberty, Fancy.....	8.00	to	10.00	.....	to	20.00	.....	to	25.00	12.00	to	25.00
" Ordinary.....	4.00	to	6.00	.....	to	6.00	.....	to	12.00	2.00	to	6.00
Richmond, Fancy.....	8.00	to	10.00	8.00	to	10.00	.....	to	.....	10.00	to	20.00
" Ordinary.....	4.00	to	6.00	5.00	to	6.00	.....	to	.....	6.00	to	8.00
Golden Gate, Fancy.....	8.00	to	10.00	8.00	to	10.00	8.00	to	10.00	6.00	to	8.00
" Ordinary.....	4.00	to	6.00	5.00	to	6.00	4.00	to	6.00	1.00	to	4.00
Chatenay, Fancy.....	8.00	to	10.00	.....	to	.....	.....	to	.....	6.00	to	8.00
" Ordinary.....	4.00	to	6.00	.....	to	.....	.....	to	.....	1.00	to	3.00
CARNATIONS												
Fancy.....	3.00	to	4.00	3.00	to	4.00	2.50	to	4.00	1.50	to	3.00
Ordinary.....	1.00	to	2.00	2.00	to	2.50	1.50	to	2.00	1.00	to	1.50
MISCELLANEOUS												
Cattleyas.....	.....	to	.....	.....	to	.....	.....	to	.....	50.00	to	75.00
Lilies.....	10.00	to	20.00	10.00	to	12.50	12.00	to	.....	8.00	to	12.00
Callas.....	10.00	to	15.00	10.00	to	12.50	12.00	to	.....	8.00	to	12.00
Lily of the Valley.....	2.00	to	4.00	3.00	to	4.00	2.00	to	4.00	2.00	to	3.00
Violets.....	.35	to	.75	.25	to	.50	.35	to	.75	.35	to	.75
Tulips.....	2.00	to	4.00	3.00	to	4.00	3.00	to	4.00	1.00	to	2.00
Roman Hyacinth, Paper White, Nar.....	2.00	to	3.00	2.00	to	3.00	3.00	to	4.00	1.00	to	1.50
Daffodils; Trumpets.....	2.00	to	3.00	.50	to	1.00	2.00	to	3.00	.75	to	1.00
Freesia.....	.....	to	.....	.....	to	.....	2.00	to	3.00	.....	to	.....
Mignonette.....	.....	to	.....	4.00	to	5.00	2.00	to	.....	.....	to	2.00
Adiantum Cuneatum.....	50	to	1.00	.....	to	1.00	1.00	to	.....	.75	to	1.50
" Croweanum.....	.....	to	.....	.....	to	.....	1.50	to	.....	.....	to	1.50
Smilax.....	10.00	to	15.00	12.50	to	15.00	15.00	to	20.00	12.00	to	16.00
Asparagus Plumosus, strings.....	25.00	to	40.00	25.00	to	50.00	50.00	to	.....	.....	to	50.00
" " & Sprengen bunches	25.00	to	40.00	25.00	to	50.00	35.00	to	50.00	20.00	to	50.00
Lilacs per 100 bunches.....	100.00	to	150.00	to	75.00	35.00	to	to

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CUT FLOWER MARKET REPORTS.

BOSTON The flower market shows no improvement over last week and little is expected until the Easter demand sets in. Business is very dull in all lines and, with the heavy receipts, sales are forced in order to prevent accumulation. Roses of all kinds, especially American Beauty, are being received in increased quantity and prices are tending downwards, although the quality is unexcelled. For carnations there is a fair market. The prospects are for an abundance of everything for Easter.

BUFFALO Three days of rain the previous week has not helped an already depressed market. The supply on all lines is more than sufficient to satisfy the present demand. The quality on roses and carnations is good, but owing to large cut and small demand the market is blocked up considerably and the latter part of the week found an overstock on roses, lilies and bulbous stock to such an extent that prices took another tumble. Carnations were not so plentiful at the end of the week and demand somewhat better than on roses. Violet shipments are somewhat lighter and demand fair. Mignonette of ordinary quality are very plentiful and moves slow, while fancy finds frequent buyers. Excellent sweet peas and lily of the valley are to be seen and move rather slow, in fact everything has to be urged. At time of mailing this report the market is more brisk and prices hold firm on carnations, but roses and other stock still abundant.

CHICAGO The market assumed its seasonable quietus this past week, with the usual Saturday and Sunday spurt. The quality and color in all grades of stock is beautiful. The retailers can make displays of cut flowers such as has never been seen. The new roses which have been successfully introduced have done much to increase a demand in cut flowers for this year.

COLUMBUS As I write on this last day of March the ground is white from the still falling snow. Not since Sunday, March 11th, have we seen the sun—when it has not been snowing, it has rained, so you can imagine the weather; and about how happy the craft feels. As regards the present market very little change has taken place since a week ago; if anything, roses are a little stiffer in price owing to the natural disposition to hold them back, all possible for Easter. There are some very fine Keizerskroon (Grand Duc), and Proserpine tulips in the market, which find a most ready sale. In regard to Easter stock, it really looks as if most

of the flowering plants were coming just about right; hydrangeas and spiraeas need sun more than anything else, but the Crimson Ramblers and all bulb stuff is in very good shape. It would certainly seem only natural after such execrable weather, and slow trade as we have had for the past month, that the bright days which must be ahead should bring a great Easter business. I failed to mention that a trip among the growers, shows lilies about right for Easter in spite of the bad weather.

DETROIT Cut flower sales were a little on the decrease the past week. Easter orders are coming in as the day draws near and preparations are being made for a busy week. At the wholesale houses stock has been scarce the past few days, and it looks as though there is a general holdup just when the retailers should have fresh stock with which to invite new trade. Violets are very poor and do not sell. Sweet peas are coming good and are quite saleable. Lily of the valley does not move. Azaleas are moving nicely, as are lilacs and rambler plants.

LOUISVILLE Business the past week has been very quiet, and Easter will probably find a great supply of stock in nearly every line. Quantities of carnations and roses are coming in, and the quality is satisfactory. There is a steady demand for violets and mignonette, but the violets are not up to the standard. Forget-me-nots, hyacinths, jonquils, tulips, etc., are equal to the demand.

MINNEAPOLIS Business has been very good the past week. Easter lilies are putting in a good appearance and are sold readily at the top prices. Azaleas and rhododendrons are fine, as are also the lilacs which are to be seen among the leading florists. Baby Ramblers are good, but not so good as they will be later. Roses are plentiful, but the darker shades of carnations are very scarce. Smilax and Asparagus plumosus are scarce. All that is used around here is shipped in from outside growers. The price of violets has gone up in anticipation of the Easter demand, but they will not be alone on the top shelf very long.

NEW YORK Although displaying a considerable activity as compared with the utter stagnation of last week, the flower market is not at all brisk. Large quantities of material in all lines are being received at the wholesale establishments and, when pleasant weather favors, most of the shipments are disposed of, the street men

getting a goodly share at very low figures. One thing that strikes the experienced observer is the very general high quality of the stock. Never before has the Easter supply shown such promising excellence. American Beauty roses as now offered have never been surpassed and rarely equalled. Lilies are good. Should the cool weather now prevailing last until Easter the cut flower trade will make a particularly clean and satisfactory record.

PHILADELPHIA

Supplies came in heavily last week, the clear weather and lengthening days being responsible, and the market was unable to absorb all of it, although business was fairly active. As a result prices sagged considerably. Even white roses, which have been selling well all the season, suffered with the rest. Beauties are down to twenty-five cents for first quality. Killarney, Chatenay, and other standard sorts are plentiful and good but prices are low. Lily of the valley crop is heavy and does not move off as freely as it should. Violets are fine but low in price. Cattleyas and other orchids are scarce.



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	Last Half of Week ending Mar. 31 1906	First Half of Week beginning Apr. 2 1906		Last Half of Week ending Mar. 31 1906	First Half of Week beginning Apr. 2 1906
Roses			Carnations, Ordinary	1.00 to 2.00	1.00 to 2.00
Am. Beauty and Edgeley fan and sp.	15.00 to 20.00	15.00 to 20.00	Cattleyas	50.00 to 75.00	50.00 to 75.00
" extra	10.00 to 12.00	10.00 to 12.00	Lilies	4.00 to 10.00	4.00 to 10.00
" No. 1	5.00 to 8.00	5.00 to 8.00	Callas	4.00 to 8.00	4.00 to 8.00
" Lower grades	1.00 to 3.00	1.00 to 3.00	Lily of the Valley	1.00 to 2.00	1.00 to 2.00
Bride & 'Maid, fan and sp.	5.00 to 8.00	5.00 to 8.00	Violets	.10 to .40	.10 to .40
" extra	3.00 to 5.00	3.00 to 5.00	Tulips	1.00 to 3.00	1.00 to 3.00
" No. 1 and lower grades	.50 to 3.00	.50 to 3.00	Roman Hy., Paper White Nar.	1.00 to 2.00	1.00 to 2.00
Liberty, fancy	8.00 to 12.00	8.00 to 12.00	Daffodils, Trumpets	1.00 to 2.00	1.00 to 2.00
" ordinary	.50 to 8.00	.50 to 8.00	Freesia	1.00 to 2.00	1.00 to 2.00
Richmond, fancy	8.00 to 12.00	8.00 to 12.00	Nigronette	.50 to 3.00	.50 to 3.00
" ordinary	2.00 to 6.00	2.00 to 6.00	Adiantum	.50 to 1.00	.50 to 1.00
Golden Gate, fancy	4.00 to 5.00	4.00 to 5.00	" Cuneatum	1.00 to 1.50	1.00 to 1.50
" ordinary	.50 to 3.00	.50 to 3.00	Smilax	4.00 to 20.00	4.00 to 20.00
Chatenay, fancy	4.00 to 8.00	4.00 to 8.00	Asparagus Plumosus	15.00 to 35.00	15.00 to 35.00
" ordinary	.50 to 3.00	.50 to 3.00	" & Sprengeri, bunches	8.00 to 25.00	8.00 to 25.00
Carnations, Fancy	2.00 to 4.00	2.00 to 4.00	Lilacs per 100 bunches	25.00 to 75.00	25.00 to 75.00

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	CINCINNATI April 2	DETROIT April 3	BUFFALO April 3	PITTSBURG April 2
ROSES				
Am. Beauty and Edgely, fan and sp.	..... to 50.00	40.00 to 50.00	35.00 to 40.00	25.00 to 35.00
" extra.....	30.00 to 40.00	24.00 to 40.00	25.00 to 35.00	..... to 20.00
" No. 1.....	20.00 to 25.00	15.00 to 20.00	15.00 to 25.00	10.00 to 15.00
" Lower grades	8.00 to 15.00	10.00 to 15.00	5.00 to 15.00	4.00 to 6.00
Bride and Maid, fan, and sp.....	..... to 8.00	12.00 to 12.00	8.00 to 10.00	..... to 10.00
" extra.....	5.00 to 6.00	8.00 to 10.00	6.00 to 8.00	..... to 8.00
" " No. 1 and Lower gr	3.00 to 4.00	3.00 to 8.00	4.00 to 6.00	4.00 to 6.00
Liberty, fancy.....	..... to 8.00	10.00 to 12.00	10.00 to 12.00	12.00 to 15.00
" Ordinary.....	5.00 to 6.00	4.00 to 8.00	4.00 to 5.00	4.00 to 6.00
Richmond, Fancy.....	..... to 10.00	10.00 to 15.00	10.00 to 12.00	12.00 to 15.00
" Ordinary.....	..... to 4.00	4.00 to 10.00	5.00 to 10.00	4.00 to 6.00
Golden Gate, Fancy.....	..... to 8.00	6.00 to 8.00	6.00 to 8.00	8.00 to 10.00
" Ordinary.....	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	..... to 6.00
Chatenay, Fancy.....	..... to 10.00	10.00 to 12.00	8.00 to 10.00	10.00 to 12.00
" Ordinary.....	..... to 4.00	4.00 to 8.00	5.00 to 8.00	4.00 to 6.00
CARNATIONS				
Fancy.....	..... to 2.00	..... to 3.00	2.50 to 3.00	3.00 to 4.00
Ordinary.....	2.00 to 3.00	1.00 to 2.50	1.25 to 1.50	1.00 to 2.00
MISCELLANEOUS				
Cattleyas.....	..... to 10.00	..... to 10.00	..... to 10.00	..... to 10.00
Lilies.....	12.50 to 15.00	10.00 to 15.00	10.00 to 15.00	12.50 to 15.00
Callas.....	8.00 to 10.00	10.00 to 12.50	8.00 to 10.00	8.00 to 10.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00	2.00 to 3.00
Violets.....	.50 to .75	.75 to 1.00	.30 to .50	.50 to 1.00
Tulips.....	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Roman Hyac. Paper White Nar	3.00 to 4.00	..... to 4.00	2.50 to 3.00	3.00 to 4.00
Daffodils; Trumpets.....	3.00 to 4.00	2.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Freesia.....	..... to 1.00	..... to 1.00	1.50 to 2.50	..... to 1.00
Mignonette.....	..... to 1.00	..... to 1.00	..... to 1.00	2.00 to 4.00
Adiantum Cuneatum.....	1.00 to 1.00	..... to 1.00	.50 to 1.00	..... to 1.00
" Croweanum.....	..... to 1.00	..... to 1.00	1.25 to 1.50	1.00 to 1.50
Smilax.....	15.00 to 15.00	12.00 to 15.00	15.00 to 20.00	20.00 to 25.00
Asparagus Plumosus, strings.....	50.00 to 50.00	30.00 to 50.00	40.00 to 50.00	30.00 to 50.00
" & Sprenger, bunches	55.00 to 55.00	20.00 to 30.00	25.00 to 50.00	40.00 to 50.00
Lilacs per 100 bunches..... to 10.00 to 10.00 to 10.00	40.00 to 50.00

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E. A. BEAVEN

Wholesale Dealer in

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New crop now ready in limited quantities.

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Fancy and Dagger Ferns, Galax and Leucothoe,
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Tosses Leaf Mold. Orchid and Azalea Peats, Fresh
cut Palmetto and Cypas Palm leaves. Wild Smilax
—Boxwood. All Decorating Evergreens.

THE KERVAN CO.

Tel. 1519 Madison Sq.

20 West 27th St
NEW YORK.

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Joseph Breck & Sons,
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ASPARAGUS.

Asparagus Plumosus nanus seedling plants ready for potting. Emerson C. McFadden, Short Hills, N. J., \$1.50 per 100, \$10.00 per 1000.

Asparagus Sprengeri, 2 1-2 in., \$2.25 per 100. Otto Bourdy, Lowell, Mass.

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J. H. Lock, Toronto, Can.
Aster Kate Lock.

Asters, nice strong plants. Queen of Market, Semples, Carlson, separate colors, 35c. per 100 by mail; \$3.00 per 1000 by express. S. W. Pike, St. Charles, Ill.

AUSTRIAN AND SCOTCH PINES.

The F. E. Conine Nursery Co., Stratford, Conn.
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Flowering Begonias, 2-in., \$1.00 per 100. H. Allen, Berlin, N. Y.

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Schlegel & Fottler Co.,
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(1000)
Amaryllis formosissima, 4 1/2 in. cir. \$22.00
Cyclobothra flava, 2-2 1/2 in. cir. 7.00
Milla biflora, 2-2 1/2 in. cir. 7.00
Tigridas in mixture, 2 1/2 in. cir. 9.00
All good, profitable blooming bulbs. Price includes parcel postpaid.
J. A. McDowell, Ap. 157, City of Mexico.

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Old Man's Head, 4 to 5 in., \$20.00 per 100.
Cacti, medium size, 10 assorted varieties, \$10.00 per 100; 15 assorted varieties, \$15.00 per 100.
Price includes prepaid mail. Headquarters for cacti, orchids, bulbs, etc.
J. A. McDowell, Ap. 157, City of Mexico.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.

CANNAS.

Dinger & Conard Co., West Grove, Pa.

Cannas, 15 varieties. Also Dahlias and Gladioli. Write for price list. O. B. Stevens, Shenandoah, Iowa.

Canna Alemana, dry or started roots, \$2.00 per 100. J. H. Krone, Jr., Fort Smith, Ark.

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L. J. Reuter, Philadelphia, Pa.

CHRYSANTHEMUM STOCK PLANTS.

Chrysanthemum cuttings. Monrovia, Glory of Pacific, Polly Rose, Robinson, Philadelphia, White Bonnation, Fitzwygram, G. S. Kalb, Robt. Halliday, John Shrimpton, May Bonnation, Col. Appleton, Niveus, Bride, White Ivory, Cullingfordill, Arline, Maud Dean, Mutual Friend, W. Lincoln, Jerome Jones, J. G. Jones, Timothy Eaton and Mme. Perrin at \$1.50 per 100; \$12.50 per 1000.

Opah, Princess, E. Bonnefond, Alliance, Fred Lemon, Mrs. Erice, La Tuslon, Mersham Yellow, Mildred Ware, Wm. Duckham, Amorita, Dr. Enguehard, Mrs. T. W. Pockett, Nellie Pockett, Ben Wells, F. S. Vailis, Mrs. Thirkell at \$2.50 per 100; \$20.00 per 1000.
W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

The E. G. Hill Co., Richmond, Ind.

COLEUS.

H. N. Eaton, So. Sudbury, Mass., Rooted Cuttings.

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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN PLANTS.

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DAHLIAS.

David Herbert & Son, Atco, N. J.
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A. T. Boddington, New York.
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Dahlias, fine, strong bulbs; also cannas and gladiolus. Write for price list. O. B. Stevens, Shenandoah, Iowa.

Dahlias, Mrs. Winters still the leading white. My sales of this variety for for the past three years were phenomenal; also Lugeborg Egeland, the new scarlet cactus. Do not fail to list these two novelties. Also fine stock of leading novelties and standard varieties. Catalogue of dahlias, peonies, hollyhocks, bleeding heart and hardy plants, now ready. W. W. Wilmore, Dahlia Specialist, Box 382, Denver, Colo.

DAISIES.

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N. Y.
Nephrolepis Piersoni Elegantisima.
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Ferns for jardinières, good varieties, \$3.00
per 100, cash. J. H. Fieser, 415 Summit
Avenue, West Hoboken, N. J.

Ferns, Japanese or Mikado fern ball, new
importation now in and ready for shipment,
in dormant condition; 8 inc. in diameter,
\$2.25 per doz., \$18 per 100 f. o. b. Cros-
man Bros., Rochester, N. Y.

FERTILIZERS.

Wm. Elliott & Sons, 201 Fulton St., N. Y.
Sterilized Sheep Manure.
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FEVERFEW.

Feverfew, \$1.00 per \$100, \$8.00 per 1000.
Prepaid. S. W. Pike, St. Charles, Ill.

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FREESIAS.

Rees & Compere, Long Beach, Cal.,
227 R. F. D. 1.
Refracta Alba and Hybrids.

GERANIUMS.

Geraniums, large top cuttings, well
rooted: Peter Henderson, \$2.50 per 100;
Trego, \$2.00 per 100, \$18.00 per 1000; S. A.
Nutt, Mrs. E. G. Hill, Beaute Poteyvine,
Jean Viand, Mme. Buckner (best white),
\$1.50 per 100, \$14.00 per 1000. The W. T.
Buckley Co., Springfield, Ill.

GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin,
N. Y.
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Gladiolus, 3 A No. 1 strains, extra fine;
also cannas and dahlias. Write for price
list. O. B. Stevens, Shenandoah, Iowa.

Gladioli. Colors, mixtures and named.
All sizes. Also bulblets. E. E. Stewart,
Rives Junction, Mich.

Groff's Hybrid Gladioli: A No. 1 stock,
true to name all shades including the cov-
eted blue varieties; 1-12 to 2 in., \$10.00 per
1000, \$1.50 per 100; 1 to 1 1/2 in., \$8.00 per
1000, \$1.25 per 100; 3/4 in. to 1 in., \$6.00
per 1000, 75c. per 100; 1/2 to 3/4 in., \$5.00
per 1000, 60c. per 100. A. B. Powell, Can-
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GLASS.

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Glass, French and American "White
Rose" brand. Stenzel Glass Co., 2 Hudson
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GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for
Florists.
Mineralized Rubber Co., New York.

HARDY FERNS AND SUPPLIES.

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Horicum.

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Yokohama Nurseries, 31 Barclay St.,
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MOONVINES.

Moonvines, 2 1/2 in., strong plants, \$3.00
per 100. John Heidenreich, Indianapolis,
Ind.

MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
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NASTURTIUMS.

Double Nasturtiums, 2-in., \$1.00 per 100.
H. Allen, Berlin, N. Y.

NIKOTEEN APHIS PUNK.

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J. H. Troy, New Rochelle, N. Y.
Koster Blue Spruce.

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2,000 Norway Maples transplanted,
straight and fine stock, 2 to 5 feet. Cheap
for cash, or will exchange for some kinds
of stock. O. C. Bailey, Newburyport, Mass.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PRIMULA OBCONICA.

O. V. Zangen, Hoboken, N. J.
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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

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2 Beacon St., Boston, Mass.
Flowers by Telegraph.

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Creeping Roses, 2 years, \$6.00 per 100.
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Conrad Appel, Darmstadt, Germany, Es-
tab. 1780. High Grade Grass, Clover, and Tree Seeds

Seeds, 100,000 fresh greenhouse grown
Asparagus plumosus seed, \$2.50 per 1,000
on large lots. Henry Young, Ada, O.

SEED CASES—MICE PROOF.

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The Chicago Lifter.

J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

VERBENAS.

The new verbenas, Ellen Wilmott, the
finest cerise pink in existence, rooted cut-
tings, \$2.50 100. Cash. W. W. Stertzing,
7280 Old Manchester, St. Louis, Mo.

VINCAS.

35,000 myrtle, Vinca minor, \$10.00 to
\$50.00 per 1000. S. J. Galloway, Eaton,
Ohio.

Eastern Nurseries, Jamaica Plain, Mass.

WIREWORK.

Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

MISCELLANEOUS.

Floral photographs. Foley's, 226-228 1-2
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Alex. J. Guttman, 43 West 28th St.

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Philip F. Kessler, 55 W. 26th St., New
York.

Julius Lang, 53 West 30th St., New York.

A. H. Langjahr, 55 W. 28th St., New York.

James McManus, 50 W. 30th St., New York.

Chas. Millang, 50 West 29th St., New York.

Frank Millang, 55-57 W. 26th St., New
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A. Moltz, 55-57 W. 26th St., New York.

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WHOLESALE FLORIST: ORCHIDS A SPECIALTY.

James McManus, 50 W. 30th St., New York.
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STOCK, BEAUTY OF NICE.

We are sending you a photograph of Stock, Beauty of Nice, a delicate pink variety, which has done very well for us. They produced full 85



per cent. double flowers with stems running from 40 to 46 inch. We received \$2.00 per dozen for them in the wholesale market.

LOUIS J. REUTER.

THE GLASS SITUATION.

The firmness noted in our last report shows signs of continuing right along until fall, as the American manufacturers are approaching the close of the fire, with their product well sold up at high prices, while the foreign market is kept high on account of the possibility of curtailed production, owing to the strike which is expected to develop on May 1st. The American manufacturers on Thursday last advanced their price about 5 per cent., and those who have any glass to sell for future delivery are asking a further advance.

On the greenhouse sizes the demand has been especially heavy this year, and orders for regular greenhouse sizes pay a premium.

LIST OF PATENTS.

Issued March 27, 1906.

- 816,053. Floral Display-Stand. Louis Wittbold, Chicago, Ill.
- 816,077. Flower Stand or Support. William H. Crawford, Dugger, Ind.
- 816,186. Fruit Gatherer. George H. Roberts, Richburg, N. Y.
- 816,236. Transplanting Device. Rudolph D. Kline, Streator, Ill.
- 816,320. Combined Hoe and Rake. Walter L. Harris, Salem, Mass.
- 816,459. Edge Trimmer. James A. Gates, Detroit, Mich., assignor of one-half to John Hinchman, Detroit, Mich.

A VACUUM SYSTEM IN GREENHOUSE HEATING.

Read before the Detroit Florists' Club by Frank A. Simonds.

In deciding the question of heat for greenhouse work, there are four different systems today that can be considered and that cause a diffusion of heat in the building to be heated. The system of hot air circulation, which, owing to its many disadvantages, has been discarded for more modern meth-expensive to generate for the extensive demands in this line, and so cannot be considered.

Hot water, under a gravity, or natural circulation, also the same medium under a forced or positive circulation. This medium is now used with very satisfactory results, even with the gravity circulation, although necessitating, as a general thing, the sinking of the hot water boiler below the ground level, which, aside from the expense of such, has its disadvantages, of that low setting, in not being as convenient as if it were on the ground level; this gravity circulation is also very slow. Another point that is often ignored in such a system, and usually to avoid first cost in installing, is in running the mains too small to secure the best results, and such is only natural, as the excessive size of the mains for such a system increases the cost at an alarming rate. When such a system is installed properly, and is not too extensive, fairly good results are obtained when a uniform, artificial heat is needed.

Should, however, it be necessary to increase or decrease the temperature on short notice, this system is too slow to respond, as the large amount of water contained in the system requires considerable time to absorb, from the furnace located quite a distance away, heat sufficient to increase its temperature all through the system, while it is, at the same time, radiating its heat through its long lines. The same is true in case the weather moderates rapidly, or the sun breaks through the clouds and showers considerable warmth through the glass, as, while the furnace can be crowded to increase the temperature of the water, it is surprising how long this volume of water will retain its heat after all is done to check the fires, or even the valves are closed to stop the circulation.

Again, in extreme cold weather, with high winds and the thermometer outside going away below what was contemplated when the system was installed, and the radiation figured, and an extra amount of heat is required to meet such conditions, it is found impossible to increase the temperature beyond a point below that of boiling water, which limits the maximum temperature.

With the forced circulation system of hot water heating, while the boiler can be placed on the ground level, and the mains can be made smaller and the circulation beyond the limits of the gravity circulation, the same objections are open, to the slow change possible in the temperature. The mains being smaller, and necessarily a smaller volume of water in the system to heat or cool, reduces this objection to that extent, at the same time, although the water may be kept at a high velocity in the system; on

account of its volume, it will heat or cool very slowly, and the circulation is unable to compensate for this, the result is that it will be too slow under the varying conditions to meet the requirements.

I do not want it understood that I mean to imply that the heat in the water cannot be made more effectual, and utilized to a better advantage with the forced circulation than without it, as I agree with the advocates of this system in this. But I do contend, and I believe all must agree with me, that it takes longer to heat a large body of water than a small one, and even with the smaller mains and less amount of water in the system on account of such, the rise in temperature of even this lesser amount of water is slow, when required in a limited time, and, when not needed, even if the circulation is stopped entirely, it will remain hot much longer than desired, especially if other outside influences are giving all the heat demanded without requiring any artificial heat.

Steam heat is the fourth source of artificial heat for such service, and while it has been used with a greater or less degree of satisfaction, according to the method or plan it has been installed under, it is certainly the most flexible and easiest controlled heating medium yet considered when installed and handled as it can be, under the most modern and improved methods.

(To be continued)

GREENHOUSES BUILDING AND PROJECTED.

Summit, N. J.—V. Hammond, one house, 30x150.

Denver, Colo.—F. C. Maler, two houses, 25x100.

Anton Schultheis of College Point, N. Y., who is one of the most alert plant growers in the country, uses the following mixture for the control of all insects on all plants, including the tenderest, at any time and in any weather:

To 45 gallons of water add four ounces of Nikoteen and one pint of Carman's Antipest.

Try it and if it works, as we know it will, give HORTICULTURE the credit when you order the Nikoteen and the Antipest.

WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order.

TO LEASE FOR A TERM OF YEARS my greenhouses consisting of about eighteen thousand feet of glass, all Hitchings & Co. boilers, and four of the houses are also Hitchings & Co.'s construction; city water on premises, two trolley lines one block, and railroad station two blocks from the premises; three miles from 34th St. ferry. Geographically they are in the centre of Greater New York. If you want a place this is a rare chance, so do not write but come and see it, possession June 1st, 1906. Apply to Alex S. Burns, 128 4th St., Woodside, Queens Borough, N. Y.

FOR SALE—Two greenhouses, 23x95, 20x68, with hot water heating apparatus and well stocked with Carnations and Violets. Will sell as it is with dwelling house attached and 17,000 feet of land, or to be taken down and removed. Address 703 Chestnut St., Waban, Mass.

One experienced fern grower; one experienced man in stove and greenhouse plants; and one first class herbaceous man. Good wages will be paid to first class, capable man, and steady position. Address S. R. care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED by a young Protestant married man, as Gardener, or Foreman on a private estate. Life experience, references warranted as to character and ability. F. care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED — An assistant capable of handling the vegetable and fruit growing work outside in a large private garden. Wages, \$50. James Holloway, "Dorsoris Park," Glen Cove, L. I., N. Y.

BY SLIPPING A

PEERLESS GLASS REPAIR CLAMP

over a cracked glass you protect your stock, save coal and glass. Do it now before the high winds play havoc with your roofs. \$1.00 will repair 150 lights. Ask your supply man, or

A. KLOKNER, Wauwatosa, Wis.
Endorsed by about 400 prominent florists.

Business still remains quiet. Flowerers of all descriptions are very plentiful. The prospects for Easter stock are good, as far as bulbs and plants are concerned. Roses and carnations will probably not be over plentiful, as most of the growers will be caught between crops. There will be a heavy cut of lilies for Easter if the weather holds good meantime.

INDIANAPOLIS.

When You

buy tobacco dust to burn from a seedsman, thinking it is **THE FUMIGATING KIND TOBACCO POWDER**, ask him if the bags bear our brand, name and address; if they do not, you are getting his substitute for it—ground stems—and not **THE FUMIGATING KIND TOBACCO POWDER** made from the pure leaf tobacco, which seedsmen seldom keep, as our price to you and to them is the same. You can try ours for a few cents; let us tell you how.

THE H. A. STOOHOFF CO.
Tobacco Powder Hobbyists,
116 West Street, New York.



NIKOTEEEN APHIS PUNK
THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
WIDELY IMITATED BUT NEVER EQUALED
UNIFORM AND ALWAYS EFFECTIVE
DON'T ACCEPT INFERIOR IMITATIONS
PRICE 60¢ PER BOX OF 12 SHEETS
\$6.00 PER CASE OF TWELVE BOXES.
NICOTINE MFG. CO. ST. LOUIS, MO.

Standard Flower.. POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money
W. H. ERNEST,
28th and M Streets, WASHINGTON, D. C.

POT MAKERS FOR 140 YEARS
A. H. HEWS & CO. INC.
CAMBRIDGE, MASS.
FLORESTA

HORICUM

KILLS SAN JOSE SCALE

Made by **HAMMOND'S SLUG SHOT WORKS,** Fishkill-on-Hudson, N. Y.

SOLD BY SEED DEALERS OF AMERICA

Glenside, Pa., March 31, 1906.

HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.
Gentlemen: Seeing Hammond mentioned in Monthly Bulletin of Div. of Zoology, Pottery, I would like you to inform me where I can get a supply, say about a dozen for trial.

The San Jose Scale I have found this section and could no doubt push sale of the solution, especially as it is spoken of so lightly in above Bulletin.
Yours respectfully,
P. S. Glenside
H. J. HINDS
Philadelphia.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/2 " " "	5.25	60 8 " " "	3.00
1500 3 " " "	6.00	HAND MADE	
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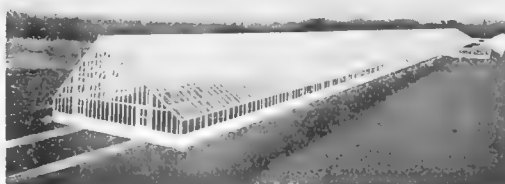
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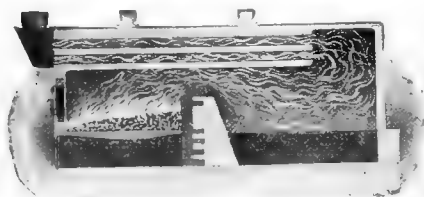
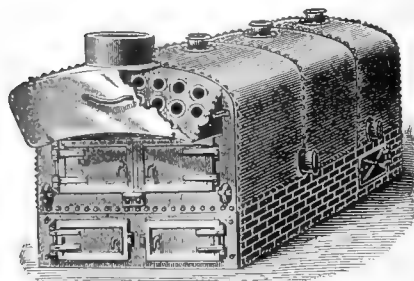
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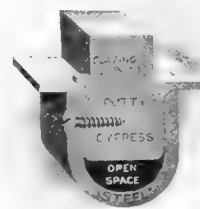
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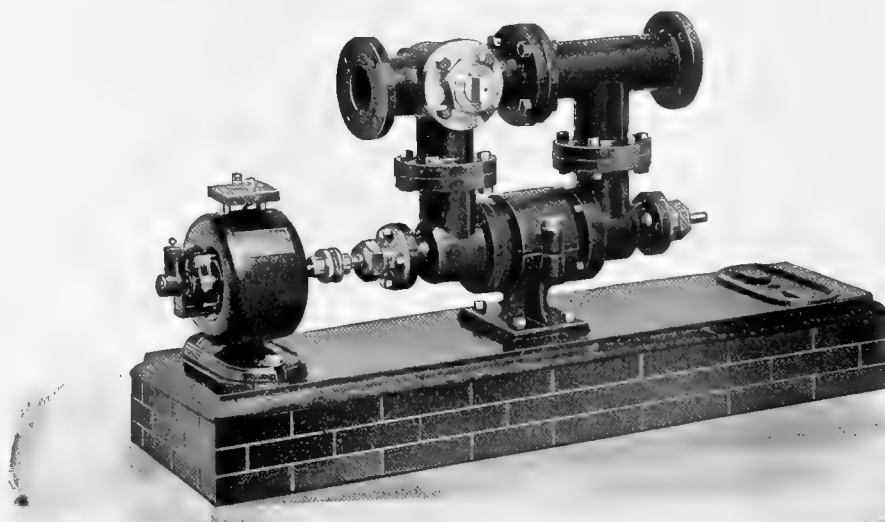
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HORTICULTURE

Vol. III.

APRIL 14, 1906

No. 15



A HOUSE OF LONGIFLOREMS.
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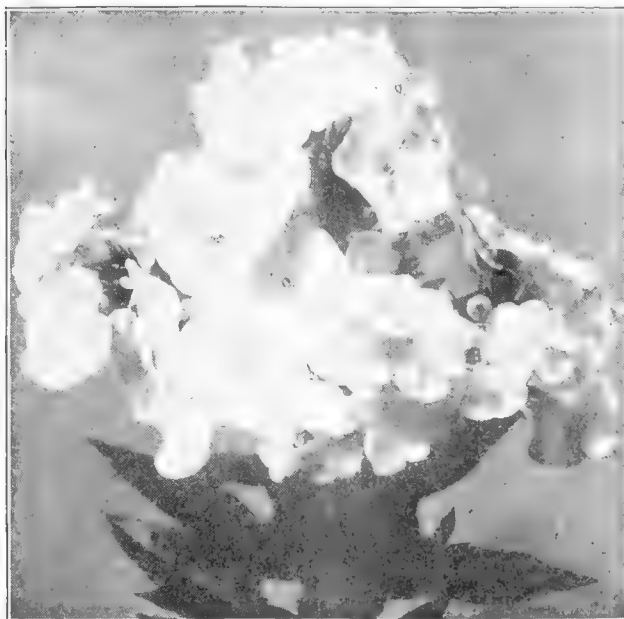
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HORTICULTURE

VOL III

APRIL 14, 1906

NO. 15

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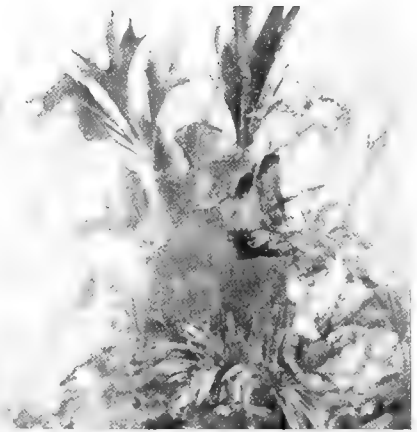
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Acrostichum and Platycerium



ACROSTICHUM LEPIDATUM

ACROSTICHUM (HYMENODIUM) CRINITUM
A. SQUAMOSUM A. LATIFOLIUM
A. VILLOSUM

ACROSTICHUM ON TREE FERN

These are not precisely plants for all-round decoration but are useful and effective when the curious forms of their fronds can be shown to advantage. They are certainly the two most interesting genera of the fern family, long, and in some places yet grown under the same generic name of *Acrostichum*. The spore-cases are set near together covering the entire under surface of the fertile fronds, or the upper leaflets of the once-divided fronds or in patches at the top of the fronds and sometimes on both sides of the three-times divided fertile fronds.

Most of them are epiphytical, growing on tree trunks or rocks. Some grow in loose soil, a few on the edge of salty creeks and some climb on trees, and when grown in conservatory in the manner they grow in nature, they are the most curious things to look at. Being nearly all tropical plants they like a warm and moist atmosphere.

If they can not be patched on old half-rotten tree trunks or dead fern trees the most picturesque way to grow them is in cork-bark baskets or simply against a piece of cork bark, like orchids, and hang them around on the conservatory walls or on a wire from the roof. They can be grown in pots too, but never grow as well. In all cases they want a mixture of good fibrous, rough peat, half-decomposed, chopped sphagnum and coarse sand. They do not want much soil, except a few, and when grown in pots, the pots should be half-filled with broken sandstone or bricks. The epiphytal species must be sparingly watered; better soak them once in a while and let them dry out between times. They are propagated by division, or, in *Platyceriums*, by young plants growing from adventitious shoots on the roots; can also be propagated by spores but are very slow to make plants of size.

The genus *acrostichum* contains over one hundred different species, classified in different sections after the form of their fronds, the way they are divided and after the way the spore masses cover the fertile fronds.

Acrostichum muscosum from West Indies and Central America has long entire narrow pendulous fronds of leathery texture, scaly underneath; the fronds are numerous and make nice bushy plants.

Acrostichum villosum from Mexico and West Indies is a dwarf prostrate species; the numerous entire fronds

about eight inches long, of a light green, are covered on both sides with brown hairy scales.

Acrostichum (Elaphoglossum) latifolium from West Indies and Central America, has entire fronds over one foot long and broad, pointed on both sides, long stalked, of a very hard texture, dark green and glossy; the fertile fronds are more narrow. There are a few other species much like that one with fronds larger, longer, or narrower.

Acrostichum (Elaphoglossum) lepidatum from tropical America and West Indies, has narrow, not very long, entire fronds covered on both sides with downy scales; the fertile fronds are larger and very narrow.

Acrostichum (Elaphoglossum) squamosum from West Indies is found also in the South Sea Islands; has long stalked entire fronds about one foot long and broad, covered on both sides with velvety silvery scales, brown at the edges; the fertile fronds are much longer and narrow. All the *elaphoglossum* are found growing on trees.

Acrostichum (Hymenodium) crinitum, the "elephant's ear fern," from West Indies, is a well-known, very interesting fern. The long oval shaped, entire, long-stalked fronds, of a thick spongy nature, are all covered with black hairy scales; the fertile fronds are of the same shape but smaller and contracted.

Acrostichum (Chrysodium) aureum and *lomarioides*, both from the West Indies, and all over the tropics, are also found in Florida where they grow in brackish swamps and on the edge of streams where the salt water tide comes in; they are the only ferns that grow near salt water. Both have once divided fronds that grow to a great dimension as high as ten feet and one foot broad. They look alike except in the fertile fronds: in *aureum* the spore masses cover the top leaflets and in *lomarioides* all the leaflets of the fertile fronds are covered and are narrow. Both ought to be grown in good sized pots and the pots standing half in water to get good growth.

Acrostichum (Stenochlæna) sorbifolium is another which has been found lately in Florida. It grows all over the tropics in both hemispheres. The once-divided fronds which are not very big, grow from a thick creeping stem to growing on trees, like ivy, to a great height.

Acrostichum (Olfersia) cervinum from West Indies and Central America. The fronds of this species are once-divided, two to three feet long, pendulous and

divided into long broad leaflets; the fertile fronds are twice-divided in narrow long leaflets; a good basket plant.

Acrostichum (*Soromanes*) *cœnopteris* from Mexico has the same fronds as the preceding, growing on woody, creeping root stocks. This and *A. sorbifolium* should be grown on old tree trunks.

Acrostichum (*Polystrophia*) *acuminatum* from Brazil has long-stalked fronds, once divided, the leaflets cut to the mid-ribs. The lower leaflets are longer and deeper cut than the upper; the fertile fronds are smaller, two and three times divided.

Acrostichum (*Polybotrya*) *osmundaceum* from Central America is another climbing fern. The pendulous fronds are very large and three times divided, of a dark green color; the fertile fronds are erect with very narrow divisions. In the natural state it covers whole tree trunks to a height of twenty feet.

Acrostichum (*Rhipidopteris*) *peltata* is a small-growing, creeping species from West Indies and Central America. The fronds are not four inches high and two broad, are round, divided and sub-divided into narrow strips; the fertile ones are round entire or slightly lobed. It likes to grow in a damp atmosphere.

Platyserium are the most interesting plants in the fern family, with their big round convex sterile fronds, not unlike an inside cabbage leaf, which in some species are deeply lobed, and their curious divided stag's-horn-like fertile ones. *P. Aethiopicum* (*stemmaria*) from West Africa with broad fertile fronds, *alcicorne* from Australia, the most common ones, *alcicorne majus* from South Asia, with nice erect fertile fronds, *biforme* from Malayan Peninsula with very long fronds, *Hillii* from North Australia and *Wallichii*, are the most showy. These with *Willinckii* from Java with three kinds of fronds and one or two of recent introduction are all that are in cultivation. In their native country they all grow on trees with no other soil than decayed matter. In greenhouses they grow best treated like epiphytical *acrostichum*, with little water at the roots.

Am. D. H. Am.

The Deterioration of Varieties

Editor HORTICULTURE—My Dear Sir: The issue of HORTICULTURE for March third contains an article by N. B. White which has interested me greatly, and which has suggested to me some points whereon I think Mr. White is not quite clear.

In opening, he says, "we hear a great deal of late about natural forces propelling every living thing onward and upward toward more perfect conditions." To these two last words I take especial exception. Natural selection never undertook to bring "living things toward more perfect conditions," nor did it ever undertake to explain the origin of those changes which people dealing with the breeding of living things call "improvements and perfections." Nature and man have very different ideas as to what constitute "improvements and perfections." Natural selection does not work on the environment as suggested in "more perfect conditions" but upon the living thing itself, making it more fit to live in its environment. Natural selection is the name applied to that force in nature, which, by eliminating the unfit, leaves the fit to reproduce its kind, a race, improved in ability to cope with its natural en-

vironment and all the struggles that entails. Just here Mr. White seems confused; he is trying to make a natural law answer for artificial "improvements" and for conditions arising from artificial environments; and, forsooth, when the culture and care of that artificial environment are gone, he holds Dame Nature responsible because she does not keep up the creature she abhors, since man has bred it to the point where it could not fulfil the natural life of its kind under natural conditions. Life in nature has two ends and only two, the first, to procure food that the creature may attain maturity, thus enabled to fulfil its second end, the reproduction of its kind. What florist's flower could live that life? The carnation? The rose? Could Mr. Burbank's much vaunted spineless cactus withstand the terrors of the desert which its ancestors endured, and endured that it might live? In deducing such widespread conclusions as Mr. White's, care must be taken not to mix the facts and the law of the case. He has not observed planets or animals in a state of nature, or if he has, does not draw his illustrations from such observation, and so he can not state what they would do under such conditions. Does he consider that Baldwin apple trees in an orchard are in any way subject to the action of the law of natural selection? What struggle is there in that orchard for food, what chance is there that any bird can eat of that pulp fruit sufficient to swallow some of its seeds and carry them far afield thus giving the second generation opportunity to live its life, did he follow nature's method and raise his Baldwin apple trees from seed? What advantage is it to the Concord grape vine to bear bunches weighing two pounds and over? Can that enormous bunch produce more seeds? Are those that it does produce of greater vitality? Those are the only points of contact between real nature and her children. Such states of life are, as Mr. White says further on, evidences of weakness and unfit the product for a natural state. To narrow the question for convenience's sake and to suit the character of your journal, a plant must produce seeds, or it loses its sole *raison d'être* in nature's realm. Again, Mr. White does not take into consideration that nature reproduces almost exclusively by seeds, thus giving each succeeding generation an infusion of new blood and new inheritances; while man almost as exclusively makes his increase vegetatively by cuttings or grafting or some similar way, then, as he never selects his stock at all, reviles nature for his own shortcomings and their resultant failures and degeneration.

Again, I take exception to the statement that "the time will surely come when the inhabitants of this earth will be obliged to contend with products inferior to what we now have." Not unless these self same inhabitants batted upon the "improvements" wrought by their forebears settle back in slothful ease mentally and physically, as they show great danger of doing, and here should be sounded the note of warning.

The "elements of decay" mentioned in the last paragraph illustrate, as I have mentioned, my point from beginning to end. Man breeds for ends purely selfish, his own advancement, comfort and luxury, unmindful of aught but himself and his present; nature breeds for work, for life, for strength, for ability to fight well and to win.

Very truly yours,

Am. D. H. Am.

Dorrancton, Pa., March 17, 1906.

Clematis Davidiana

The clematis shown in the accompanying illustration has been grown as *C. Davidiana* in various places, among those having it under this name being Prof. Waugh of Amherst Agricultural College. Prof. Waugh writes concerning it, as follows:

"In Bailey's *Cyclopedia of American Horticulture* this clematis is given under the name of *C. heracleæfolia* var. *Davidiana*. I am not acquainted with the species type, nor very familiar with the other variety referred to it, viz., var. *stans*, but *Clematis Davidiana* as I have grown

it is a beautiful species. In fact I do not hesitate to say, without any reservation, that it is the best thing I have ever seen in this important group. The description adopted by Prof. Davis in the *Cyclopedia* is not satisfactory when compared with our specimen. Ours is considerably woody, a reasonable amount of the wood living through the winter. The plant is not erect, any more than *Clematis Jackmanni*. It grows more like *C. virona* or *C. crispa*, and resembles the latter perhaps more than any other species known to me. It can be trained up against a building or on a veranda with excellent effect. The flowers are very fragrant, in marked contrast to *C. paniculata*, for example, which has a rank and disagreeable smell. The flowers are borne profusely, are nearly an inch across, and are almost white, with just a faint suggestion of pale delft blue.

I have heard it said that the reason why this splendid clematis is not more commonly grown is that it is hard to propagate; but this has not proved true with us either. It propagates fairly easily from greenwood cuttings in an ordinary cutting bench. It seems perfectly hardy here, and I grew it for several years in Vermont where it did not winter-kill. I have wondered if my specimens were true to type, and have thought that perhaps I had something better than I was entitled to have under the name of *Clematis Davidiana*; but certainly this clematis is well worth anybody's time."

Jackson Dawson of the Arnold Arboretum has this to say regarding *Clematis Davidiana*: "*Clematis Davidiana* was first received at the Arboretum about eighteen years ago. Our first plants were from Gen. Woolson and were imported by him from abroad. As I understand it the plant is supposed to be a native of



China and was first introduced to European gardens about 1865. Our plant grows from two to three feet high and has light porcelain blue flowers in clusters, blooming nearly all the latter part of summer. It is not woody above ground with us but is what I call suffruticose having one or two inches of woody growth below the surface of the ground and it is by cutting up these underground stems that we have propagated it as I find the color changes considerably in the seedlings, being somewhat lighter blue than in the original plant. It is a fine addition to the herbaceous border.

"*Clematis tubulosa*, also a China species, has much darker flowers and less robust growth but is well worthy of cultivation. Included in this group is *Clematis stans* and *C. Lavallei*. The latter is of much more robust growth often growing five feet or more in height and covered with large clusters of drooping bell-shaped flowers of nearly pure white color with a delicious odor of hyacinths. It is the latest to flower of all the clematis family and, I think, is but little known to cultivation in this country though it has been in the Arboretum for twenty years. This scarcely ripens seed here but is perfectly hardy. *C. Davidiana*, on the contrary, ripens seed freely."

Lathyrus pubescens

LATHYRUS PUBESCENS, Hook. and Arn. in *Bot. of Beechy's voyage*, p. 21.

The genus *Lathyrus* belongs to the natural Order Leguminosae or Pulse family and according to Bentham and Hooker has about 100 species. They are distributed in many parts of the world, not only in temperate climates but also in high altitudes in the tropics. Most are of ornamental value and are worthy of cultivation. Their flowers are showy and in various colors. They are satisfied with any good garden soil, and their propagation can be made by dividing or seed.

Lathyrus pubescens, the downy South American lathyrus or everlasting pea is of fine quality, but it is doubtful if it will in the open ground stand our winters even if protected. It is not by any means a new perennial as was stated in *HORTICULTURE* No. 12, Vol. III, p. 367.

From *Botanical Magazine* t. 3996, Vol. XVI, London, 1843, I will cite the following quotation: "A hardy greenhouse plant, perhaps even able to bear cultivation in the open border. It is grown we believe, in several collections, and was introduced by Mr. Tweedie from Buenos Ayres; but whether it is found wild near that place or only in the interior of the Argentine province, does not appear. Mr. Baird gathered it on islands in the Parana. If, as I suspect, it be the same with the *L. acutifolius* of Vogel, it is also found in South Brazil. Dr. Gillies detected the plant about Mendoza, and it extends we know as far westward as Concepcion and Valparaiso on the shores of the Pacific. In general habit it is nearly allied to *L. nervosus* (Bot. Mag. t. 3987), the flowers being very similar, though the leaves are widely different. Trained in a pot, and placed in a cool greenhouse, it bears its large purplish blue flowers in May."

Carl Blomberg

Those Moth Pests

The \$250,000 appropriated by the Massachusetts legislature to exterminate the gypsy and brown-tail moths has called forth some comment from the people not residing in the stricken district. A visit to the infested region would quickly quiet all murmurings. No other town wants even a small share of either of the two worst insect pests that Massachusetts has ever known. The money so wisely set aside by the 1905 legislature is being spent in an endeavor to restrain the moths within their present limits.

In the case of the brown-tail moth this will not be wholly impossible if hearty co-operation is given by tenants, something now required by law. The brown-tails pass the winter in colonies of three hundred, in tight cocoons made from two or three leaves on the tips of the branches. Hence the winter treatment consists in the removal and burning of these nests.

The gypsy moths pass the winter in the egg stage. There are about 500 eggs in a cluster, mixed with hair from the female moth. The whole presents the appearance of a more or less oval pod about one inch in length and varying in color from yellow to a dirty white, according to the time of winter. Winter treatment consists in painting these egg masses with black creosote.

To my mind the ultimate relief from the gypsies will come with parasitic insects or disease, following the natural order of things, but until such aid does come, no stone must be left unturned to keep them in check by thorough winter treatment and summer spraying with concentrated arsenate of lead, such as Bowker's Disparene. Spraying combined with the conscientious pruning and burning of the nests will eventually head off the brown-tail moth.

The brown-tail is reported from Eastport, Maine, to Cape Cod, Mass., and one hundred miles west of Boston; the gypsy in a more restricted area in eastern Massachusetts, but accounts of their presence in new parts appear almost every day in the daily papers. A sharp look-out should be kept by every one for the characteristic nests and egg masses. If there is any doubt as to the nature of the contents forward it to your experiment station for identification. If you haven't it you don't want it, and if you do have it you want to find it out. It is a deal simpler to exterminate one colony on a restricted area than a hundred colonies dove-tailing one into another. Furthermore, do your best to secure the U. S. appropriation of \$275,000 to keep them where they are, even if you don't live in the infested area, otherwise you may have that questionable pleasure.

Many of the towns have made good headway already this winter. The trees all over the moth country show numerous black patches like fire burns, evidence of treatment of gypsy egg masses. Gangs of men are out collecting and destroying the brown-tail moth nests. Incidentally many neglected trees are receiving a much needed renovating, and ill-kempt wood lots are being cleared of the mass of worthless brush that accumulates. "It is an ill wind that blows nobody good."

R. L. Adams.

British Horticulture

SUCCESSFUL DAHLIA RAISERS

In recent years Messrs. J. Strednick and Son have distinguished themselves as raisers and exhibitors of dahlias. Amongst their show triumphs last year was the winning for the third time in succession of the champion challenge trophy offered by the National Dahlia Society. The first new introduction brought out was Harry Strednick, which was distributed about ten years ago. This was followed in 1898 by Night, one of the daintiest blooms in commerce. Subsequent introductions, which are now in many cases popular with exhibitors, were Magnificent, Uncle Tom, Major Weston, Mayor Tuppenney, Lord Roberts, J. Weir Fife, Alpha, Geo. Gordon, Mrs. J. W. Wilkinson, Ella Kraemar, J. A. Riding, etc. The firm's latest introductions are William Marshall, a rich orange with bright yellow in the centre; Mrs. Macmillan, white in centre, deepening to a beautiful pink at the tips; Victorian, pinkish white, speckled with deep crimson and purple; Primrose, light sulphur yellow; Star, bright bronze and yellow, etc. Tom Tit is a pompous cactus variety of neat and attractive form. It produces even when fully grown, diminutive flowers, but perfect exhibition specimens of the cactus type. The tint is mauvy-pink. The flower received a certificate when exhibited last year.

THE METHODS ADOPTED

In Messrs. Strednick's trial ground there will be about 800 plants set out this year. This ground is planted from top to bottom, five feet apart, and four feet in the row, eight plants in a row. The seedlings are planted in May after the ground has been thoroughly prepared and manured. They plant out the first week in June. The busiest time in sending out orders is from the middle of April until June. Mr. Strednick was asked the other day whether the cactus dahlia had increased in popularity. "Every year," he replied, "whilst the others diminish except in the United States where quantities of doubles are brought. The colonies and growers in Europe greatly prefer the newer cactus. We sent a large box of bulbs to Tokio by the last ship which went through the Suez Canal before the late war." Questioned as to the secret of their success Mr. Strednick answered that energy and perseverance are the chief factors. The actual cultivation of the plants, such as watering, thinning, and tying is done by Mr. Strednick and his son.

ORANGE CULTURE

Messrs. T. Rivers and Son at a recent meeting of the Royal Horticultural Society showed what can be done in the way of orange and lemon growing in this country. The Long Orange, Seville, Malta Oval, Malta Blood, Citrus corniculata, Egg Orange, and St. Michael's, were included, as well as the Bijou Lemon, White Lemon, Sweet Lime, Citron and Shaddock. Visitors to the nursery in March were able to see the orangery in its most attractive garb, the evergreen leaves and golden fruit making a charming contrast. It is surprising that more attention is not given to this subject in England, seeing that it affords such a welcome ornamentation to the conservatories in the dull days of winter. Oranges can be as easily grown as grapes, an essential factor being the provision of a lofty house with plenty of light and ventilation. Messrs. Rivers have several houses set apart for the raising and

general culture of oranges. At Sawbridgeworth the orange is worked upon the lemon as a stock, the latter being raised from pips. A number of seedling lemons are raised each year. After a couple of years' growth these are ready for grafting. Quantities of trees are sent out each year, the firm's customers including colonial growers. There are over 1000 orange trees in two large houses at the nurseries which are famous for other kinds of fruit, several well known introductions having emanated from here.

A RECORD ORCHID PRICE

Orchardists from far and near were recently attracted to the sale of a portion of the collection of orchids belonging to Mr. H. T. Pitt, of Rosslyn, Stamford Hill. The most valuable item was *Odontoglossum crispum* Pittianum. The plant was collected by Mr. J. Carder, and first flowered in Mr. Rochford's nurseries. On coming into the possession of Mr. Pitt it was exhibited in May, 1900, and received from the Royal Horticultural Society a first-class certificate. It was also exhibited at Manchester where it received a gold medal. A. J. Chapman, in his well known work on orchids describes it as "one of the finest varieties in cultivation." After a brisk bidding the lot was knocked down salesroom prices. This established a record as regards saleroom prices. Included in the sale was a *F. K. Sander* which realized 800 guineas, whilst others fetched from 300 to 470 guineas each. The aggregate obtained was 5,342 pounds—a satisfactory morning's work for Messrs. Protheroe & Morris, the auctioneers. A second day's sale produced £3,974, indicating that the orchid trade is still "booming" in Britain.

W. H. Aclsett.

London, Eng., March 31, 1906.

Primulas

Primula is an extensive genus of small and desirable plants. All the species of primrose increase readily by seeds, or by dividing the plants, which should be done as soon as they have flowered. However, in treating *Primula sinensis* I do not reproduce them by division, but by sowing the seeds early in April, as better plants can be procured by this method. A light soil is preferable in which to sow the seeds of this particular plant, equal parts of loam, leaf mould and sand. It is also highly essential that the pan or pot in which they are sown should be well drained and watered thoroughly before sowing the seeds, which in turn should be but lightly covered, placing them in a temperature of 60 degrees until germination has taken place, afterward removing them to a cooler situation, say about 50 degrees.

When the plants have formed 2 or 3 leaves they should be removed from the seed pan and potted singly into 2 1-2-inch pots, using similar material to that in which they were sown. Care should be taken at this stage not to expose them to undue sunlight for a few days, or until they become established. Plenty of air at all times will add vigor and prove beneficial to the plants. Repot into 4-inch and ultimately into 6 and 7-inch pots, as the plants require, with soil containing less leaf mould, and more manure; decomposed cow manure is perhaps best for this purpose.

During the hot months of summer the plant may be advantageously placed in a frame or lean-to facing north and shaded during strong sun. As the sun declines and becomes less powerful late in the afternoon the shading may be removed. When the nights become cool in September the plants should be removed to the greenhouse and grown in a temperature of 45 to 50 deg. and syringed daily during bright weather. When the pots become filled with roots, liquid manure should be given once a week and a dressing of bone flour occasionally. Primulas are not so susceptible to insect pests as are some other plants, but it is well to place tobacco stems between the plants as a preventive.

George Morrison

Fuchsias at the Spring Show, Philadelphia.

William Robertson, gardener to John W. Pepper, took first premium for three fuchsias. These were well grown specimens, trained as standards and the variety was old *speciosa*, which is the best variety to be had at this time of year. The fuchsia lends itself admirably to being grown as a standard and plants two or more years old come more naturally as standards.

The second prize was awarded to Fred Huggler, gardener for Geo. Vaux, and these were grown as dwarf standards evidently two years old—or rather were being grown the second year from the cutting. This variety was unknown to me nor was it labelled. It resembled the old *Elegans* or, by some called *Charming*, but I did not know it bloomed thus early. 'Tis a pity there are not more varieties to be had in bloom at this season of the year. We have depended entirely too much upon Europe for our new varieties of fuchsias, where they do so satisfactorily all summer long, while in this climate they do not thrive during the heated term.

Here is an opportunity to experiment in raising a new race of early-blooming varieties suitable to this climate, which, there is no doubt, could be done by systematic and well directed effort. *Speciosa* would possibly be a useful parent with that end in view. The variety *Mrs. Geo. Rundle* is now in bloom here, so also is *Arabella* and *Gustave Nadand*, so that by using these early flowers for pollenizing and by carefully selecting the resultant offspring, success seems assured, especially when Luther Burbank in a recent number of "The Youth's Companion" says that "We have learned that plants are as plastic in our hands as clay in the hands of the potter." I wonder whether the potter has to make 60,000 pots before he gets one to suit him, as it is said Burbank did when he rejected 59,999 blackberries before he found the one he afterwards named *Iceberg*. I do not believe that the raising of improved varieties of plants from seed by cross-fertilization and selection is so easy as it is for a potter to make pots from clay, especially flower pots, but don't let that deter us from making an effort to raise new and improved early-flowering varieties of fuchsia. Let's get to work.

Edwin Lonsdale

Girard College, Philadelphia.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE
FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager.

Ready for
the next crop

Easter week is a hustling time for the plant grower to whom the duty of refilling the vacant space after the Easter material has been marketed is second in importance only to the disposal of the Easter stock. What crop shall be selected to follow is a question dependent largely upon local circumstances, but the course, whatever it may be, must have been mapped out well in advance and there is no more convincing evidence of the intelligent and prudent grower than that he be fully prepared to put his houses at work again without a day's delay, as soon as they shall have been emptied.

Of interest
to rose growers

We confess to having a certain aversion to retrospective addresses on trade and professional topics. It is usually an indication of decadence and of waning interest in living issues when a man or an organization or a paper gets into the habit of this sort of literature, unless the rehearsal is made use of to illustrate a timely argument or point the way for present and future enterprise. The paper on roses by Benjamin Dorrance which appears on another page of this issue is admirable in possessing the latter quality. It is well calculated to set people a thinking, which should be the primary aim of such a paper. We hope our rose-growing readers will peruse it and shall welcome any communications which they may send to us touching on the questions propounded by Mr. Dorrance.

Spare the
native flowers

While the fever is on for teaching the public school children what they should do, horticulturally, it will not be out of place to teach them also some things they should not do. Many of the beautiful wild plants once so abundant are fast becoming extinct and one of the causes of their disappearance is the wholesale gathering of too flowers, which puts an end to their reproduction from seed, and as a species thus becomes scarce it is easy to pick every one in sight becomes more and more precious. It has been estimated

that there are now about six hundred foreign wild plants which have been brought to this country in various ways and the coarse and unattractive ones are rapidly spreading and usurping the place of the pretty species that have been so ruthlessly destroyed. Children—and grown people, too—should be instructed as to such things as *Cypripedium acaule*, fringed gentian, etc., that the persistent gathering of all the flowers that appear will soon exterminate the species in a given locality.

Back to the
country life

The nursery business in hardy ornamental trees, shrubs and border perennials is enjoying a period of unprecedented prosperity and the signs of the times are that this is only a beginning. Never before has there been a spring when the attention of the people has been so concentrated on the pleasures of rural and suburban life and the comforts of a home with grounds tastefully adorned. The awakening, for a time localized in the extreme eastern section of our country, has now spread over the entire land. Communities are demanding public parks; men of wealth and leisure are taking up large tracts, erecting villas and stately conservatories; less conspicuous but equally enthusiastic is the sentiment among the humbler classes; on all sides the people are calling for a better knowledge regarding selection, planting and care of the things that go to make beautiful home surroundings. Paralleling the impulse thus given to the ornamental nursery trade the landscape gardeners' profession has already developed into one of the most promising and lucrative a young man can take up, and its future magnitude can hardly be over-estimated.

The right spirit
in emulation

The communication from one of our correspondents in this issue criticising the work of the judges in the late exhibition of the Massachusetts Horticultural Society and the American Rose Society, opens up an old subject upon which very decided opinions have often been expressed. Mr. McFarland voices an admirable sentiment when he says that he prefers some award which carries with it a recognition of cultural excellence above any sum of money that may be given an exhibitor. This is the true competitive quality which, we believe, is much more general among gardeners and florists than is realized. On one point, however, we take issue with the complainant. We do not like to see "a bad loser." All societies confer on their exhibition judges the right to withhold first, second or any other prize from any exhibit not deemed worthy thereof, and this is just as it should be. We think that when an exhibitor, knowing who the judges are to be, submits his product to those gentlemen, in competition for their verdict, he should accept their decision with equal good grace whether it be an honor or a reverse. And this applies without distinction to the large and the small exhibitor alike.

AFTER ADJOURNMENT.

Rather a far-fetched conceit, that of an advertiser in one of our contemporaries using the picture of a rooster of a breed not over 35 years in existence, in illustration of an occurrence 1906 years ago.

At a meeting of the fire department captains of Worcester, Mass., one day last week, to take suitable action on the death of one of their associates, it was decided to send to the funeral a floral "set piece" in the shape of a fire alarm box! Somewhat suggestive?

The agitation against "the 11 o'clock closing law," which has been going on in Boston ever since the carnation convention, has resulted in a vote in the House substituting midnight for 11 o'clock. Now bring on your conventions.

We learn from a New York daily paper dispatch that the steamship Bermudian, which arrived on April 7, brought over 5000 Easter lilies from Bermuda's fields, together with several hundred boxes of violets, and that "the consignment was practically sold before it arrived." So far as the violets are concerned, probably that was the best time to sell them! The game of "sight unseen" is not unknown to school-boys. It is presumed to teach wisdom.

AN EXHIBITOR'S GRIEVANCE.

In looking over the issue of HORTICULTURE March 31, 1906, I came across an article entitled "Explaining the Absence of the Small Exhibitor." It appears to me that the inducement held out to the small grower was all that anyone could wish, both in the horticultural schedule and also in the American Rose Society schedule had they lived up to them, but when they do not live up to their schedule you must not expect to have the small grower continue to exhibit. One thing to be remembered is that all roses are not expected to be as long-stemmed as Beauties or as fine as Liberties or Richmonds, but they may be as good in their class and should be considered in that light.

I am speaking from the fact that I staged two separate roses of Brunner's, one in the American Rose Society and one in the Horticultural Society, and neither of them received a first prize, although the best in the hall. On Friday morning, the opening morning of the show, one of the leading retailers of Boston tried to buy these two dozen Brunners from me at \$6 per doz., which I refused on the strength of my wishing to help out the show. Now, when a man shows two dozen roses with a wholesale value of \$12 and spends three half days attending the show and replacing them once or more during the exhibition, it does not appeal to me as a business proposition, although had I received first prize cards for both I would have been better pleased then to get second prize in money. Furthermore, I would state that I also had on exhibition a fine vase of lily of the valley, for which, had I taken it to any retailer in the city, I could have received \$5 for same, but on Monday morning after the show was over I found I had received a gratuity of the sum of \$1. In

my mind I should have received a card of superior culture or something of that nature which would not have cost the society over five cents and at the same time would have been a source of much pleasure to me. The only thing that I can see for the small grower to do is to stay away until such time as he can be treated in a proper way. If they cannot afford to pay \$10 for a first prize of Brunner roses, then place it at \$5, and give us a first prize card.

JOHN MCFARLAND.

PERSONAL.

H. Bayersdorfer, of Philadelphia, starts on his annual pilgrimage to Europe next week.

Frederick William Smith, of Norwich, Conn., and Beatrice Frances Prentice were married on April 3, in Jewett City.

The Rhode Island College of Agricultural and Mechanical Arts has selected Prof. Howard Edwards of the Michigan Agricultural College, to succeed Prof. Butterfield.

I. Leroy Richardson has taken a position with William Nicholson, of Framingham, Mass., and Chester M. Carter succeeds to his position with George R. Simonds at Barre, Mass.

E. J. Harmon, of Portland, Me., was taken suddenly ill at his store last week, and a report that he had dropped dead gained circulation. It was a case of overwork. He was taken to his home and improvement was soon apparent.

Roswell F. Brooks, formerly with Charles J. Jones, of Cincinnati, but now connected with the water works department of that city, and Miss Grace M. Belser, well known as chief clerk at the Walnut Hills Floral Bazaar, were united in marriage, Tuesday, April 3.

TOLEDO NOTES.

The Perennial Gardens Co., the new concern which was lately incorporated, expect soon to organize, after which they will start without delay and get their property in shape.

We have had a week of fine spring weather, and the seed stores are filled with customers all day long. The mail trade has considerably improved, and orders cannot be filled as fast as they come in.

A visit to our largest establishments is rather disappointing, considering that Easter is before our door, and comparing the looks of eastern greenhouse plants at such a time, eight days away from this important festival, it impresses us that little preparation has been made to meet a large demand unless big orders go to outside houses. Six hundred lilies is the biggest lot to be found in the largest place, and azaleas, hydrangeas, cinerarias, spiræas are in proportion. Bulbous stock can be found in moderate quantities in every place, and prices are so as to suit every pocket-book. Krueger Bros.' place is a treat to visit. I doubt if better carnations, as we see them in their new range, can be found anywhere. A fine lot of antirrhinum may be found at George Hunt's.

SCHILLER.

WHOLESOME CHESTNUTS.

Look all over your seed closet in case you overlooked anything. Some very regrettable omissions come about through non-observance of seed packets at the proper time.

Did you ever try Crimson Ramblers in a large bed, bending the flowering shoots down over wires stretched at intervals over the bed about eighteen inches from the ground? What a gorgeous show Ramblers make planted in that way!

If you are in doubt about geraniums flowering in a somewhat shady situation, and it is imperative to plant something of a bright showy nature, try begonias of the Vernon type. They have been known to do exceedingly well in situations partially shaded.

It is time to prune all out-door roses that require pruning. Roses are not supposed to be pruned to make them look even all over, as some would seem to think. Prune them for the purpose of getting large flowers, many flowers, or both. Cut out all dead and weak wood and use discretion in cutting the other wood back.

Nicotianas succeed best when grown cool, and it is a good plan to pinch them before planting out. Don't go back on our friend Nicotiana Sanderae of last year in anticipation of abnormal results from the new ones. These will no doubt turn out all right, but there was nothing at all the matter with last year's novelty to warrant its being discarded this year.

Don't forget to give fruit trees one more spraying before the fruit buds open; it may seem a little irksome at the time, but the recollection thereof, when a good crop of unblemished fruit is being harvested, will be sweet, as against what a recollection of hesitancy ending in neglect of the precaution will be when at time of harvest there will be no fruit to gather.

Plant lettuce, cabbage, and cauliflower for early use as soon as danger of frost is over. Sow onions, radish, peas, and carrots as soon as possible. Sow sweet peas without delay; don't be afraid to put enough soil over the seed at first. I think that method is fully as good as covering by installments, because more roots are made before the peas appear on the surface. Put geraniums and most other kinds of bedding plants except soft things, such as coleuses, set out into cold frames to harden before planting.

Get to work on dahlias by whichever method you elect to propagate. If by cuttings, take care they are not too kindly treated in the way of heat. Let them have a gentle heat from below and keep them cool above ground. Take only short-jointed cuttings and those with a heel whenever possible. When only slightly more than calloused put them in small pots, shading them for not more than two days, unless by flagging they should need further covering. Start tuberous begonias slowly into growth by putting the bulbs in flats or pots and placing them on a bench. Water sparingly until they show signs of growth.

NEWS OF THE CLUBS AND SOCIETIES.

NEW YORK FLORISTS' CLUB.

Monday, April 9, the regular meeting date for April, was one of the stormiest nights of the season, yet there were fifty members present to greet Benj. Dorrance and listen to his able and interesting paper on Roses. In the absence of the president, Vice-President Pepper presided. At the conclusion of Mr. Dorrance's address, interesting remarks on the subject of roses were made by Robert Simpson, president-elect, and F. R. Pierson, vice-president-elect of the American Rose Society, and earnest appeals on behalf of this society were made, urging that a wider interest and more general membership be secured.

Resolutions were presented on the death of Ralph Moore and Fred Boulton. Five new members were accepted. Mr. Barrows of Whitman, Mass., was a visitor. The death of August Rhotert was announced. Following is a list of the exhibits, with the comments of the exhibition committee:

John N. May, Summit, N. J., showed Richmond, Mme. Abel Chateau and Killarney; highly commended.

Minneapolis Floral Co., Minneapolis, Minn., Miss Kate Moulton. A vote of thanks. The committee did not feel justified in scoring this variety in the condition exhibited, owing to the distance shipped.

John H. Taylor, Bayside, L. I., Bride, Bridesmaid and Liberty; highly commended.

Robert Simpson, Clifton, N. J., Uncle John, Chateau, Golden Gate and Richmond; cultural certificate.

Lager & Hurrell, Summit, N. J., three plants of *Cattleya Schroderae* in variety; highly commended. Two of the types are very fine.

H. H. Barrows & Sons, Whitman, Mass., *Nephrolepis Whitmanii*; certificate of merit. *Asparagus Crawshawii*; honorable mention.

H. R. Carlton, Willoughby, O., Governor Herrick violet; vote of thanks. Committee would like to see it again.

THE NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting of this society was held on April 6 at their rooms in Orange. The topic for the evening was "The English Landscape," illustrated by colored slides, with brief descriptions by the secretary. The floral portion of the evening embraced all the season's flowers—roses from the hands of Peter Duff, George von Qualen and William Phillips; carnations from William Reid, George Oakley and Max Sheider; orchids from Lager and Hurrell, Julius Roehrs Company and Arthur Bodwell; besides spiraea, antirrhinum, cineraria and bulbs. A bryophyllum in full bloom was one of the attractions from A. Bodwell.

A proffered prize of \$10 for the best three displays of vegetables for the season from Vaughan's seed store was accepted with the thanks of the society.

A proposition from Mr. David Pierson for the society to assume the decoration of a float in the forthcoming parade in June was accepted by the society.

E. B. DAVIS.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

In accordance with the instructions voted at the convention in Washington last August, the secretary will, under the supervision of the executive board, proceed to prepare a "badge book" containing the names of members, numbered, and will issue correspondingly numbered badges to those whose dues for 1906 are paid to June 1. Members in arrears for current year's dues as well as all persons intending to take out membership this year are earnestly requested to remit now. There is no advantage in waiting until the convention meets, as the fiscal year begins on January 1st and payments made at any date during the year cover the interim until December 31st only.

WM. J. STEWART, Secretary.
11 Hamilton Place, Boston, Mass.

The Outdoor Exhibition at Dayton.

Circulars and entry sheets are being sent out this week to all nurserymen and others dealing in outdoor-planting material, tender or hardy. Plans of the beds as laid out are in the secretary's office and all information not given in the printed circulars will be cheerfully furnished by the secretary to all inquirers.

It is desirable that all planting be completed by May first, if possible, and the necessity for prompt response is urged upon all intending exhibitors. The fair grounds, where the beds are to be laid out, is city property, used for many public affairs, and is contiguous to the works of the National Cash Register Company. As soon as planted, the advertising label of each owner will be placed on the groups and same will be cared for all through the summer till the S. A. F. Convention meets in August. Many thousands of tourists and local visitors will inspect the plantings, and the opportunity thus provided dealers in conifers, shrubs and ornamental trees, herbaceous plants, summer bulbs, roots and bedding plants, for widespread and effective public advertising has never been equalled. Dayton is well-known as one of the most advanced communities in this country in the matter of adornment of streets and public and private grounds. A goodly number of applications for space for cannas, roses, phloxes, asters and evergreens are already filed with the secretary. For further information address WM. J. STEWART, Secretary, 11 Hamilton Place, Boston, Mass.

LENOX HORTICULTURAL SOCIETY.

The regular meeting of this Lenox society was held in their rooms Saturday, April 7th, President S. Carlquist in the chair. The principal topic of the evening was potatoes. An offer of \$25 was received from A. T. Bodington, and one of \$18 from Vaughan's Seed Store, to be used for prizes at the chrysanthemum show. W. J. & M. S. Vesey, Fort Wayne, Ind., were awarded a first class certificate for an excellent vase of carnation Glendale. GEO FOULSHAM, Sec.

DETROIT FLORISTS' CLUB.

A most successful flower show was held in connection with the meeting of this club on April 4, at the Michigan Cut Flower Exchange. Mr. Dilger's arrangement of the exhibits was very fine. Many well-known growers responded with superb displays. Prizes were awarded as follows: J. Stahlen for carnations; B. Schroeter for rose-pink Enchantress; Thomas Brown for carnations; Gus. Taepke for plants; A. Ferguson for plants; J. Breitmeyer's Sons for La Detroit and La France; R. Klagge for carnations; F. R. Pierson Co. for Lawson and Winsor and ferns; H. Weber & Sons for Jessica and My Maryland; W. J. & M. S. Vesey for Glendale; J. D. Thompson Carnation Co for Robert Craig. The varieties in each of these exhibits were seen at their very best. Two elegantissima ferns donated by F. R. Pierson Co. were sold, as per instructions, for the benefit of the club, and brought a high price.

Other prominent exhibits were Boston Market carnation from James Taylor; Glendale from Chicago Carnation Co.; antirrhinums, callas and spring flowering bulbs from Robert Klagge; large collection of roses, carnations and antirrhinums from J. Breitmeyer's Sons; collection of carnations and antirrhinums from F. Pautke; rose Miss Kate Moulton from Minneapolis Floral Co.; Easter plants from Mr. Ferguson; carnations from Thomas Brown; carnations from J. Stahlen; Easter plants from G. Taepke; sweet peas, pansies and a cement bench from A. Von Bolslager.

NASSAU CO. (N. Y.) HORTICULTURAL SOCIETY.

The regular monthly meeting of this society was held on the 4th inst. at the usual place, President Harrison occupying the chair. During the winter months the society met at 3.30 p. m., but from May till further notice, 7 p. m. will be the hour of meeting. It was decided to hold the coming fall exhibition on October 31st and Nov. 1st.

The fountain pen prize given by B. G. Davis, "Glen Cove Echo" for 12 best mixed carnations arranged for effect was won by W. Eccles, Oyster Bay.

The exhibit of cut flowers, plants, and vegetables was large and varied. Felix Mense, staged a nice table of cut flowers and plants including *Lilium longiflorum*, azaleas, rhododendrons, deutzias, begonias, *Cineraria stellata*, vases of hyacinths, carnations, roses and narcissi. Alex Mackenzie had fine plants of *Cineraria stellata*, rose Capt. Hayward, and pelargoniums; also cut flowers of sweet peas, carnations, and gardenias. H. F. Mezer's table included some nice forced lilacs in pots; pansies, carnations, roses, and snapdragons, also some well shaped heads of cauliflower. S. Trepass showed good cauliflower and cucumbers; likewise plants of *Primula obconica*, *Cineraria hybrida*, *Lilium longiflorum*, cyclamen, calceolaria, and azaleas; also vases of mixed carnations and some beautiful spikes of antirrhinum. J. Harrison had an interesting

lot of greenhouse grown vegetables including beet, asparagus, snap beans, carrots, rhubarb, cauliflower, tomatoes and mushrooms. W. Eccles showed a mixed vase of well grown carnations. J. H. Troy, New Rochelle, was present and made some appropriate remarks.

JOHN S. JOHNSTON.

NEW BEDFORD HORTICULTURAL SOCIETY.

At the regular meeting of this society, held on Monday evening, April 9, it was decided to hold a free rose show in June. Mr. W. N. Craig, of North Easton, gave a very interesting address upon the growing of annuals and perennials. Although Mr. Craig is an eloquent speaker, the gardener, which is a hereditary trait in his family and promises to be for another generation at least, asserted itself. He regarded the sweet pea superior to the dahlia, of which the New Bedfordites are so passionately enamored; recommended liberal treatment in the way of manure and watering; making the rows one foot wide, and the thinning of the plants to 4 or 5 inches apart; he advocated the growing of sweet peas and nasturtiums in separate colors. *Narcissus poeticus* was suggested for margins of lakes and damp places, and Darwin tulip for late flowering. He assured his hearers that they might expect an influx of very desirable novelties from Western China. A very helpful discussion followed, and the meeting closed with a vote of thanks to Mr. Craig.

T. WHITE.

COLUMBUS FLORISTS' CLUB.

Tuesday evening, April 3rd, the regular meeting of this club was held with President Stevens in the chair. The attendance was good and the meeting a long one, as many matters of importance needed attention. Two active members were admitted. The club was very much annoyed by a communication which Secretary McKellar read from the Board of Education, stating that the penny packets of flower and vegetable seeds which our club had been putting up for the school children of this city, could not be delivered by the teachers as planned. For some unknown reason the Board of Education have taken a stand against the school garden movement. The club chose a committee consisting of Messrs. Woodrow, McKellar and Faxon to meet the Board of Education and fully investigate the matter. Another very important subject brought up was the coming chrysanthemum show. Last season it proved such a success that we are encouraged to have another in November. The bowling club has been formed and already practice games have been rolled on the Y. M. C. A. alleys. The next meeting will be Tuesday evening, April 17th.

CLUBS AND SOCIETY NOTES.

The Kentucky Society of Florists held its regular monthly meeting Tuesday at the store of Jacob Schulz, Louisville.

At the meeting of the New London County Horticultural Society in Norwich, Conn., on April 9, J. W. Duncan of the Metropolitan Park System, Boston, delivered an address on Herbaceous Planting.

OBITUARY.

Thomas Devoy.

A sterling old gardener has passed away, and many loving friends mourn. Thomas Devoy had all the noble qualities and all the attainments that go to make up the typical old-time gardener. His death occurred at Poughkeepsie, N. Y., on March 29, after a long period of feeble health, at the age of 74 years.

Mr. Devoy was born in Ireland, and when but fourteen years of age was apprenticed to learn the gardener's occupation. After a five years' service he came to this country and entered the employ of M. Pease, at Brooklyn, N. Y.

In 1856 he went to Poughkeepsie to take charge of the greenhouse and garden of Matthew Vassar, at Spring-side, which position he resigned to take an engagement with Professor Samuel F. B. Morse, and here he remained for 38 years, until Professor Morse's death. To his skill and good taste the beautiful place of Professor Morse was largely due.



Mr. Devoy won many honors and trophies at various exhibitions during his engagement with the Morse family, and later when in business for himself, having established a commercial florist's business with his son on Worrall avenue, Poughkeepsie, in 1884, where he was engaged at the time of his death.

He is survived by one son, Peter Thomas Devoy, and two daughters. The funeral services were held Monday morning at St. Mary's Church, the pall-bearers being Conrad Gindra, George Burgevine of Kingston, W. G. Salford, Thomas Lynch, Charles Schaumberg and John Sloan.

August Rhotert.

August Rhotert, who has been doing business at 26 Barclay street, New York, for a number of years, died Monday, April 9, in his 46th year, at his late residence, 235 West 131st street, New York. A widow, mother, and two brothers, in Germany, survive him.

Mr. Rhotert represented many important European firms, among which are Vilmorin, Andrieux & Co., Louis Leroy, E. Neubert and others.

He was a man of unusual business

ability; very prompt, exact and painstaking in all he did. He amassed a fortune in his business and fortunate financial investments. He has been in precarious health for several months.

Andrew Nixon.

Andrew Nixon, for many years in business on upper Fulton street, Brooklyn, N. Y., died on March 31, at his home, 47 Madison street, of pneumonia. He was born in Ireland, Oct. 11, 1863.

Caleb H. Parker.

Caleb H. Parker, of Campello, Mass., who have been identified with gardening interests for many years, died on April 3, aged 87.

PUBLICATIONS RECEIVED.

Bulletin No. 274 of the New York Agricultural Experiment Station, Geneva, N. Y., is the directors' report for 1905. It is a very interesting document and clearly indicates the practical character of the work being done at Geneva and its great value to the agricultural and horticultural industries of the Empire State. It is stated that the total mailing list is now 39,280, over 3000 names having been added since January 1, 1905. The station maintains in numerous places in the State, experiments having for their object the determination of the applicability of certain methods to agricultural practice.

Part II, Eighteenth annual report of the Agricultural Experiment Station at Kingston, R. I., is received. It is a volume of 364 pages, containing several illustrations. Among the special papers published are: "The Effect of Postponing the Ammonium-Citrate Treatment of the Water-Insoluble Portion of Fertilizers," by B. L. Hartwell and J. W. Kellogg; "The Use of Acetic and of Oxalic Acid for Extracting the Charred Material in Preparing Ash," by the same authors; "The Effect of Liming Upon Certain Constituents of a Soil," by the same authors; "The Causes of Unproductivity in a Rhode Island Soil," by H. J. Wheeler and Jas. F. Breazeale. The report of the horticultural division by F. W. Card and M. A. Blake deals comprehensively with present day problems.

The first annual report of the superintendent for suppressing the gypsy and brown-tail moth in Massachusetts, by A. H. Kirkland, contains a statement of the results accomplished to date, together with a record of expenditures and certain recommendations bearing on the future needs of the work. The investigations of the season have shown that the whole of Essex county, over one-half of Middlesex county, half of Norfolk county, and practically the entire county of Plymouth, a total of 2224 square miles, are now infested by the gypsy moth, whereas, in 1900, the area occupied was 359 square miles. Automobiles are found to be important factors in the distribution. The brown-tail moth has in eight years' time become disseminated along the entire eastern territory of New England, its ability for rapid flying being mainly responsible. The book contains 168 pages, and is embellished with numerous striking half-tone views.

ROSES

A Paper Read Before the New York Florists' Club by Benjamin Dorrance.

When I received the invitation from Mr. O'Mara to write a paper on the Rose I was in Egypt and it was only after a good deal of hesitation that I thought best to accept. I regret that my want of knowledge must be so much in evidence; to talk to practical men, thoroughly up on the subject as you are, I confess, is most embarrassing; to only relate a part of my experience and trust that you will forgive the presumption when I tell you of my reasons for accepting. Primarily I am under obligations to many members of the New York Florists' Club both on the grounds of friendship and of customers, whom I value highly. Then, when a member of the firm of Peter Henderson & Co. asks me to do anything I feel that I owe it to the memory of the respected founder of that establishment to do whatever I can, no matter how poorly, to advance the Rose, since he, now so long gone but not forgotten, was the chief instrument in turning a poor blind lawyer from the path he had trod to the sweeter, pleasanter, brighter, path of a rose grower. Well do I remember the day when it was announced to me by an occultist that if I wished to be able to see the sweet light of day and nature's beauties I must absolutely give up my profession. Not feeling at the best, as you can understand, I strolled down Cortlandt Street and stopping in to see Mr. Henderson, received a kind invitation to visit the Jersey City establishment. It is but as yesterday that we walked through the houses and he so kindly showed me the methods he found best for treatment of the various plants and naturally we talked of my loss. He said to me, "you have the land and cheap fuel, why don't you try rose growing? Go over to John Henderson's at Flushing and see what he is doing." And I did. Now to this advice I owe whatever of success I may have made in the work and it is little I can do to repay and, as I have said, I felt it a duty to say yes, let this be my apology.

It was about 1882 that I first gave my attention to rose growing, and to-day when Bon Silene, Souvenir d'un Ami, Sprunt, Mermet and the other nearly forgotten roses of the past are mentioned it takes me back to the days when I struggled to get some slight return for the efforts I put forth to learn why Perle would not open and why Niphetos preferred to bow its head to mother earth. Then Cornelia Cook stood peer of all the whites, with her long, erect stems and delighted in brick dust and cow manure piled high around the pots. Do you remember when John May sent out the Bride? And how happy all were that at last we had a white rose that would give us freely, flowers without coaxing. Do you remember Charley Anderson and how he urged that Madame Cusin was a good rose. Then what a stir there was over the Bennett, sweet of flavor, short of stem and blue of color. Mrs. Pierpont Morgan, "a large a Beauty" and so much more in evidence. How from Mermet, came God-given, through the hands of Mr. Moore, the Bridesmaid; then Meteor burst forth, out of

darkness to give us the first good red of profuse bloom.

Sprinkled here and there through all this time new roses grew, bloomed and died because not good, hopes built but to be blasted and Perle remained the only yellow for the florist. Liberty came, sweet yet disappointing to most growers, now Richmond comes to do her battle, which shall win? Each succeeding year brings before you new candidates for your favor, they rise, they shine, they disappear, sweet as the child of one's own raising. Each thinks his will succeed, and, yet when brought before the judgment of the buyer, they are doomed to live only in the memory of the originator. And beauty reigns, as ever, in plant or woman, still queen of all.

To go over the long list of roses that from time to time has been added to by candidates for popular favor would seem useless, since, once condemned, there is little hope for resurrection, and they stand only as monuments to the immense if fruitless labor of careful painstaking workers. Here and there one remains for a brief period, a seeming success, supplanted by some new candidate, perhaps better, far more probably not so good as the old; still there remains the list of but ten or a dozen, the standby, the reliance of grower and salesman. That Beauty has so long been a favorite is not to be wondered at, for although not a truly beautiful rose (at least in some eyes) never as yet has one been produced with the vigor of growth and luxuriance of this rose, and when to these is added its fine fragrance, it is not surprising that it has a hold on the popular heart only to be broken by a more wonderful rose yet to be produced. Whether a Hybrid or a Hybrid Tea, found by accident or purpose, the fact remains that it was the first of the Hybrid class that proved to be ever blooming under glass; may we not learn from this accident that there may be others among the Hybrid Perpetuals which under skilful treatment could be induced to give us as freely of their bloom and of their brilliant coloring. Bride and Bridesmaid, offspring of good old Mermet, must remain long the leaders in their race of tall growing Teas.

Testout came, a revolution in the clear pink class, and while never a great favorite was, I think, among the very best of summer roses under glass. It still remains a most prolific bearer. To me it has been a source of wonderment that the retail florist who grows flowers for his own use, has not made more of this rose. It responds to a generous treatment as gratefully as any rose I know of. Do you remember it as shown by E. G. Asmus at the shows of say ten years ago? Was it not fine?

Mrs. Pierpont Morgan with Canadian Queen, and Mrs. Oliver Ames followed Madame Cusin, both sports from her, and except for the size of Mrs. Morgan, no great improvement over their mother; for delicacy of flower when great length of stem is not required, to me there can be no more pleasing bloom and certainly the production is

not stinted. Meteor was the first continuous blooming red rose of size and merit sufficient to warrant growing it in number, and the finest blooms were doughty rivals of Jacqueminot, but its bad habit of throwing faulty blooms on the best growth set all the world agog trying for an improvement, and when Liberty came there was great rejoicing. But this is not a rose that grows for everyone and murmurs of dissatisfaction were heard from many quarters. Now that there is Richmond to fall back upon it is to be hoped that for everyone an abundance of red roses may be had; the choice between is a matter for the individual, and no opinion of one will influence the other. These seem to be the bulk of roses grown for market in the large centres, and while the demand for them continues, they must of necessity be the ones to which the grower will give the closest attention.

I have omitted any mention of the lesser lights and will content myself with simply mentioning some that appear in the markets with more or less regularity, saying, that in roses as in other things, variety is the spice of life. La France, once so popular, seemed to die when Nyack soil refused to longer perform its wonders. There have been and still are others in the line, that, while candidates for favor, have gradually disappeared. Today, Wellesley, on the same line, is a candidate. May it live long and prosper! Franz Deegan, a yellow with orange tint; old Madame Hoste, yellowish white; now and then Bon Silene, forerunner of them all, still has her admirers. Madame Chatenay, fine when well grown; Golden Gate, ugly when large, droopy when medium, ragged when small; Sunrise, essence of light in color, rather small and yet beautiful, can still be seen, while Sunset went the way of all the earth. Killarney is a candidate for favor among the pinks; what success it may have still remains to be seen. Resurrected from the forgotten, it may be there are others that if handled differently, might prove at least worthy of a trial.

There are still others that, beautiful in and by themselves, when brought under the fire of close examination, do not stand the test and have been relegated, most of them, to the scrap pile.

You will notice I have made no mention of Hybrid Perpetuals, chiefly because I know nothing of them. As market men they concern us little, since they are of little moment for cut bloom and it was only about roses for market that I understood I was expected to talk tonight. As a grower for market, while thinking of what I should say to you, there have come to me several questions that perhaps may have come to you and this may be a good opportunity to ventilate them in a degree. There seems to be one question, unanswered, yet ever coming up, that, since each year there are new roses brought forward, is it good business to keep planting old kinds to the exclusion of the new? Do we advance as rapidly as we might? Do we give the new roses a fair show? Is it possible that the old are so good that we

do not need the new? Knowing the state of the market generally, what is the encouragement for growers to make an increase in the area of ground under the glass? Is there any inducement or business opening for new men to embark in growing, and if yes, how should the beginning be made, with a small or a large plant? What influence has it had on the market to have erected such large plants as have been built in the West?

What improvements have been made in growing methods in the past year?

Which class of roses is best for the general market, Tea, or Hybrid Tea?

What is the general market and what are its demands? By the general market I mean the market as made up of all classes of people as buyers, and by demands I mean quality, quantity and variety. It goes without saying that quality is always a first requisite and that a good rose is always more desirable than a poor one, but the word quality as generally understood in this market means that as a rose, no matter how good the bloom itself may be, if stem is not an element it must go in a low class, while many roses, the blooms of which would attract little attention otherwise, if with long stiff stems, seem to rank high. Naturally it must seem that the body of buyers be composed of a few high-priced, a large number of medium-priced and a very large number of low-priced individuals. What proportions do these bear to each other, what do they demand in variety, are they entirely content with what we are now giving them, or do they want others old or new? I am well aware that New York is said to be the best market for the best and the poorest market for the poor; if this be so why is it? This naturally leads to another question, what constitutes a valuable rose and which characteristic is the most valuable? What constitutes a good or perfect rose viewed from a retail standpoint and what from the grower's view?

Does specialization in growing lead to the production of better flowers? Has it been noticed whether, since the tendency has been to confine efforts to separate classes, any appreciable increase has been made in the number or quality of such flowers?

What effect on the market has the introduction of the Hybrid Tea had as against the Tea?

What influence do rose shows have on the market, stimulant, depressant or neutral? In what condition should roses be shown, specially prepared or in such a condition as a careful grower would have his shipments for the market? In other words, are the exhibits at the rose shows any true index of the roses grown by the exhibitor and thus any criterion for forming a judgment of his general ability, or are they simply a selected few specially prepared with the view of winning prizes, irrespective of the keeping qualities and availability for market purposes; and as such are they good educators of the public or is this not the intention and purpose of rose shows?

I presume no one has been in the business for twenty years and made a moderate success who has not had more or less inquiry from inexperienced men and women, asking how he

HOUSE OF CHRYSANTHEMUMS AT MORTON F. PLANT'S, GROTON, CONN.



The accompanying picture shows a house of chrysanthemums Mrs. Wm. Duckham and Merza. It was one of the three houses that took first prize in the Massachusetts Horticultural Society competition against all New England, this being the second consecutive time this prize has been won by these houses. Also from this house

or she may make a beginning. As advice is usually cheap and moralizing easy, I usually give the following as a formula, premising it with the remark that the best way is to go to some good grower and work for him until the principle has been mastered, that constant watchfulness, great care, the utmost cleanliness, and steady work, are the "Open Sesame." The minutiae will only come from experience, and he who has pluck to succeed will do so in spite of failures; and, learning from mistakes, eventually make as few as possible, having done which he will have reached as near perfection as any of us will ever come.

To the grower of roses under glass, problems are always coming. There are no hard and fast rules that, laid down, can be followed. The novice can learn the general principles by an earnest attention to the work as he sees it done under his tutor, and the brain work must keep up with the manual; the reasons for certain lines of treatment must be understood, not blindly accepted as rules invariable, but to the end that under certain conditions a given treatment ought to produce a certain result. The endeavor to learn the cause of failure may result in greater success, as well as a mere correction of the error. There is probably no branch of agriculture that will so well repay intelligent effort as the production of flowers under glass, but the road is not all smooth, the failures are as many as the successes, and it is only by persistent work, undaunted by failure

were won the Wells-Pocket gilt medal at the Philadelphia show in 1905, and the Buckber silver cup, also at Philadelphia, the gold medal, silver medal, and six firsts at New London and six firsts at New York, all in 1905. The picture is good evidence of the worthiness of the exhibits and the cultural abilities of the superintendent of this vast estate, Thomas W. Head.

unconquered by mistakes, and a grim determination to succeed even under most adverse circumstances, that the goal of success may be reached and the satisfaction had of having conquered.

AMERICAN VINES SHUT OUT.

Consul Keene, of Geneva, sends the report to the Department of Commerce and Labor that the Canton authorities of Geneva have given notice to all persons interested in the importation of American vines that after April 1, 1906, the importation of rooted American plants, whether grafted or not, will not be authorized in that Canton or province. He continues:

The perennial trouble about the dreaded phylloxera is the cause of this prohibition. It was claimed that this disease was introduced into the Canton, some twenty-five or thirty years ago, by American vines which were planted at Pregny. By the federal law of 1894 the importation of American vines was prohibited. Exceptions were, however, provided for. Acting upon this authority, the local government has for six years permitted the importation of American vines into 37 of the communes. The Canton of Geneva, with 4600 acres of vineyards, will now, like the great Canton of Vaud, adjoining it, with 17,000 acres of vineyard, be prohibited ground for American roots. Scions of American plants are not included in the prohibition, but will be admitted as heretofore, after passing the usual expert inspection.

MECHANICAL WATERING

A PROPOSITION.

"Flow gently, sweet Afton, among thy
green braes,
Flow gently, I'll sing thee a song in thy
praise."

The above as well as the poem referred to in last week's HORTICULTURE by Mr. Wittbold, was written by Burns, the man who wrote the "Wee, wee German Lairdie." I am sorry I can't sing a song in praise of the smoothly flowing watering machine, for as yet we have no idea just how the mechanical man does his work. My, but it must be a wonder! Healthy argument and criticism are good; that is what brings out points which are welcomed by every one; and the man who starts on a rampage and loses his temper, which is evidently what Mr. Wittbold did, generally gets the worst of the argument and loses the respect of his fellows. I have been at the business both private and commercial for twenty-six years. I have always tried to keep up with the procession in anything new; if I saw anything good I gladly gave it my humble indorsement; if, in my judgment I saw it wasn't good, I said so. I am not a diplomat in the sense of the word. Those gentlemen say "yes" when they mean "no", and there is no living man or men who have money or influence enough to buy me over to give opinions contrary to my honest judgment. I wish the readers of HORTICULTURE to observe this, and if at any future time I should write about things pertaining to the trade they may know that I give my opinions fearlessly and without prejudice.

Now let me ask Mr. Wittbold a few questions. Step into a private place; there are some plants whose foliage the water must not be allowed to touch; pots away up on shelves where the top rows dry out quicker. How is the machine going to work there? Seedlings out in cold frames hardening off, bulbs, etc. How are they going to be taken care of? Now we will visit the man who grows lilies and pot roses for Easter trade. The former are taken in and set close together till they want more room; then they are given more space. The roses are the same. How can the machine go over from 1,000 to 10,000 pots and see which wants water or even put water into them?

Suppose we go into a rose house. Did Mr. Wittbold or any other man ever water a rose house and not find there spots which didn't want water and spots where the soil was very dry? I know from experience that in using manure water we have to go over the dry spots with clean water before applying the manure. There are places close to the steam pipes where the little red fellow makes his home and the careful workman always gives this a little better syringing than other parts of the house. How is the machine going to overcome this? Then comes the young stock; how are they to be taken care of?

If Mr. Wittbold will read at last

week's HORTICULTURE the essay on Carnations by Mr. Secker he will find this: "I have yet to find the greenhouse so situated that all the plants are ready for water at the same time. Consequently if you are soaking the plants that are wet with your weekly feed, the result is soon apparent as the benches will be empty". Perhaps the gentleman's brain will not accept any new theories but he writes good common sense and is evidently governed by practical experience.

I suggest the following to Mr. Wittbold: Let him bring on his machine I will gladly let him install it in any of my houses, he to pay all expense. I will supply the water; any damage to crops or houses he is to make good. I will extend an invitation to the Boston Gardeners' and Florists' Club and any practical man of my acquaintance to come and see it in operation. Mr. Wittbold will get a square deal and it will be the best advertisement he ever had.

As I said in opening argument and criticism are healthy. Don't let us get excited; keep cool; let us have each other's ideas in a friendly way. Don't use any Billingsgate phrases; we all have to learn and I have yet to find the man who knows it all even if he is a specialist in his particular branch.

Mr. Editor, I have stretched this letter longer than I expected. In closing I thank the two gentlemen in your last issue for their views of the watering question and I, like Mr. Finlayson, will retire gracefully from the field and class Mr. Wittbold a benefactor to the florists' profession as soon as he answers the above questions by letting his machine do all the above work.

R. T. MCGORUM.

A SUGGESTION.

Answering my critics on mechanical watering in your paper of April 7th, page 443, will say, that I seem to have stirred up a hornet's nest. Let me ask, what experience have these gentlemen had with mechanical watering? Let us remember, that a pipe with some holes drilled into it, or some other arrangement that did not answer the purpose for which it was intended, should not be brought up as evidence to show that mechanical watering is a failure.

We have now fifteen houses equipped with the system, and are able to cut down our watering expenses 90 per cent, and do more even and better work than before. We grow palms and ferns, and find for this class of stock, it certainly is a grand success. As I believe only the evidence of those who are using my idea of watering should be of any value to the readers of HORTICULTURE as they would speak from experience, I suggest that HORTICULTURE get an expression from W. B. Davis Co., Aurora, Ills., Davis Bros., Morrison, Ills., Klehms Nurseries, Arlington Heights, Ills., or Stephen Hyde, Carthage, Mo. The above comprise vegetable and cut-flower growers, and their experience should be of value to the readers of HORTICULTURE.

LOUIS WITTBOLD

THE GREENHOUSES AT OCHRE COURT, NEWPORT.

One of the largest private ranges of greenhouses in Newport is at Ochre Court, the residence of Mrs. Ogden Goelet. It is always very interesting to visit this place because of its extent and the variety of plants, flowers and fruit grown there. The greenhouses are modern in the fullest meaning of the word and numerous enough to allow a house for each stock grown. There are two graperies, two nectarine and peach houses, two palm houses, one stove, one carnation house, one gardenia house and two miscellaneous plant houses, all of which are utilized to their fullest capacity by James J. Sullivan, the gardener.

The palm house, an ornamental structure of gigantic proportions, contains many large and beautiful specimen palms, but more interesting by far than these are some superb dicksonias, twenty-five feet high. In the stove are crotons and dracaenas in great variety, together with a collection of well-grown stove plants of other species.

With gardenias Mr. Sullivan has been continuously successful, which he in part attributes to his invariable rule in using water of a temperature a degree or more warmer than that of the house, gardenias being very susceptible to water of a cool temperature. Gardenias blooming abundantly and uninterruptedly since Christmas are present and past criterions sufficient to convince that Mr. Sullivan's watering and other methods agreed with the plants.

Over a year ago the San Jose scale became intimately connected with the peach and nectarine trees on this place. In this connection the scale became so persistently adhesive that fumigating with cyanide of potassium was finally suggested by the authorities at the agricultural college. The results were very gratifying and the trees are now fine and vigorous.

In the carnation house the varieties grown are Lawson, Enchantress, President Roosevelt and Variegated Lawson. Variegated Lawsons were planted so late that they are only now beginning to flower, but the flowers are considered so satisfactory that the plants are to be allowed to remain in the house all summer and more planted for next season in addition. On this place a small house is exclusively devoted to alternantheras. With alternanthera Mr. Sullivan departed from the usual method of putting in flats, and instead he planted it in benches in the fall. This departure has not been successful. Alternantheras, especially the tender red varieties, come through the winter in better condition if they are packed closely in flats; the other method might result differently if a high enough temperature could be kept up to keep the plants growing.

In a bench *Nicotiana Sanderae* is in full vigor and bloom. Mr. Sullivan finds that if plunged in water immediately after cutting, flowers of *N. Sanderae* will stand shipping and last a week in a house. Begonias seem to be coming in again here. I noticed them in the seedling stage in variety, including a fine lot of seedlings of the new red *Begonia Erfordis*.

D. M.

The Cottage Gardens

Contain the finest assortment of selected specimen Evergreen, Deciduous Trees and Shrubs procurable, and its Landscape Department is at your service in arranging them. Price list ready now. Has tables of the best herbaceous plants, giving common and botanical names, height, color and season of bloom. Sent free. All inquiries cheerfully answered.

COTTAGE GARDENS CO., QUEENS L. I.

NEWS NOTES.

A gypsy moth colony has been discovered at Stonington, Conn. This is the first recorded outbreak within the borders of Connecticut.

T. F. Keller & Co., of Providence, R. I., suffered considerably from a fire which started in the upper floors of the building they occupy.

The department stores of Columbus, Ohio, are having special sales and disposing of large quantities of roses, shrubs and peach trees at the uniform price of ten cents each.

The nurserymen in the vicinity of Columbus, Ohio, have been very much annoyed and had considerable stock ruined by the rabbits during the winter. Especially have apple and pear trees been badly girdled.

Albert E. Ross, of Berwick, Me., has purchased the balance of the greenhouses of C. E. Bryant, of the same town, and will remove them to his own land. Mr. Ross bought one of the greenhouses some time ago.

The greenhouse of Flynn Bros., of Lawrence, Mass., were seriously dam-

Stock From 2 1-2 In. Pots at 50c per doz., \$3 per 100

Asparagus Spengerii (strong), Abutilon Savitzii, Cobaea, scandens, Clematis paniculata, Ageratum blue and white, Heliotrope blue and white, Moonvines blue and white, Nicotiana Sanderæ, Shasta Daisies, Scarlet Sage Clara Bedman, Petunias double white, Senecio scandens.

Seedlings from flats at \$1.00 per 100

Shasta Daisies, Scarlet Sage, Smilax, Petunias, dwarf Phlox, Verbenas.

Rooted Cuttings from soil, 75c per 100

Coleus Verschaffeltii, Golden Bedder and fancy varieties, Ageratum blue and white, Alternantheras, Heliotrope.

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PIONEER GUARANTEED NURSERY STOCK AT WHOLESALE PRICES.

All stock guaranteed disease free and true to name.
Hart Pioneer Stock is pure bred and produces heavy crops.
Value received for every dollar sent us. No Agent's Commission.
WRITE FOR COMPLETE PRICE LIST. WE WILL SAVE YOU MONEY.
HART PIONEER NURSERIES, Established 1865. Fort Scott, Kan.

HORICUM KILLS SAN JOSE SCALE
Made by **HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.**
SOLD BY SEED DEALERS OF AMERICA.
Glenside, Pa., March 31, 1906.

HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.
Gentlemen:—Seeing "Horicum" mentioned in Monthly Bulletin of Div. of Zoology, Penna., I would thank you to inform me where I can get a supply, say about a gallon for trial.
The San Jose Scale is very bad around this section and could no doubt push sale of the solution, especially as it is spoken of so lightly in above Bulletin.
Your early reply will oblige, Yours respectfully, H. J. HINDS.
P. S. Glenside is twelve miles from Philadelphia.

aged on Sunday last by the collapse of the wall of a brick building being erected next to their place. The cold wave that followed ruined considerable stock.

Conrad Appel of Darmstadt, Germany will make a large exhibit at the Jamestown Exposition next year, including a lawn of fine grasses and a show case containing grass, clover, agricultural and forest tree seeds and rare conifer cones.

George W. Glines, of Beverly, Mass., was shot, but not seriously injured by Frank Dowling on the morning of April 7, shortly after having discharged him from his employ. Wilfred Caldwell, Mr. Glines' brother-in-law, who pursued Dowling, received wounds that will probably prove fatal.

SOLD OUT.

Dear Sirs:—

Please discontinue my bulb advertisement in your paper and send bill. I have sold out till varieties are short and do not care to have inquiries for what cannot be furnished.

Respectfully,

O. B. STEVENS,
Shenandoah, Iowa.

April 3, 1906.

KOSTER BLUE SPRUCE

5 ft. to 8 ft. high

J. H. TROY, New Rochelle, N. Y.

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WE WANT ADVERTISING**
LET US GET TOGETHER

FOREST TREE AND SHRUB SEEDS AND SEEDLINGS

Catalpa Speciosa, Black Locust, Nursery grown and collected seeds and seedlings.

FOREST NURSERY AND SEED CO.

McMINNVILLE, TENN., R. F. D. 2

PRIZE PRIMULA SEEDS SOW NOW.

Will make splendid plants in bloom for FALL sales.

	Trade Pkt.	Trade Pkt.
Primula sinensis, pure White, \$0.60		\$1.00
" " Brilliant Red, .60		1.00
" " Holborn Blue, .60		1.00
" " Crimson, .60		1.00
" " Pink, .60		1.00
" " Mitchell's		
European Mixture, .60		1.00

This is the finest mixture procurable composed of the choicest separate colors on v.

Primula obconica, Red, \$0.30	
" " Rose or Pink, .30	
" " pure White, .30	
" " Hybrid Mixed Colors, .40	
" " Fimbriata Choice Mix'd, .50	

For Seasonable Seeds and Supplies please refer to our Wholesale List mailed free on request to all florists.

HENRY F. MICHELL CO.

Seed Importers and Growers

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AT BOSTON Robert Craig Wins Again

Not another scarlet carnation has been able to take first honors with **ROBERT CRAIG**.

The introducers of **CRAIG** fill all orders on time and send out only healthy, vigorous, well grown selected cuttings taken from blooming stems.

Send in your order now.		We can fill it promptly.
\$3.00 for 25	\$12.00 for 100	\$50.00 for 500
6.00 for 50	25.00 for 250	100.00 for 1000

5 per cent. discount for cash with order.

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QUEENS, N. Y.

FINE SILVER CUPS and TROPHIES

For Exhibition Awards, Sporting Events, etc.

FINEST ASSORTMENT IN THE COUNTRY
FROM THE BEST MANUFACTURERS AND
AT LOWEST PRICES.

THORNTON BROS.,
LAWRENCE, MASS.

500,000 COLEUS

Verschaffeltii, Golden Bedder and fancy named varieties.

Rooted Cuttings, 60c. per 100, \$5.00 per 1000 Cash.

H. N. EATON, South Sudbury, Mass.

LADY GAY AND HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druscinski. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

Catalogue mailed on request.

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ROSE SPECIALIST WOODS HOLE, MASS.

KILLARNEY

The most profitable Rose to date.
Strong, thrifty young plants.

\$10 per 100. \$90 per 1,000

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Rose Hill Nursery
NEW ROCHELLE, N. Y.

Lilies, Japanese Plants

BAMBOO STAKES

The Yokohama Nursery Co., Ltd.
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PANSIES!!!

Biggest Mammoth Strain, giant flow. Fine colors, wintered. All flowers, stocky plants, \$3.00 per 100, 6 cents per 1. Sweet Williams, strong lumps, double all colors, \$3.00 per hundred. Canna Roots, best of all, \$1.00 per 100. Dahlias, field roots, double, named, for cut flowers, \$3.50 per 100. Cash please. Price list free.

IMPERIAL SEED & PLANT CO. Grange, Baltimore, Md.

Sphagnum Moss and Cedar Poles
Moss 15 lb Bale, \$1.25; 5 Bales, \$5.25; 5 Bales, \$5.00; Pkg Moss, 10 Bales, \$7.50. Poles, 2 inch butt 8 feet long, \$15.00 per 1000; 2 1/2 inch butt 10 to 12 feet long, \$22.50 per 1000. Cash.

H. R. AKERS, Chatsworth, N. J.

HOTHOUSE GRAPE VINES,

fine strong, two and three year old canes, Black Hamburg, Muscat Alexandria and other varieties

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Asparagus Plumosus Nanus

Fresh Seed Crop of 1906
\$2.50 per 1000 Seeds
Lots of 10 M. at \$2.00 per 1000 Seeds

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The Wholesale Florist of Philadelphia
1608-18 Ludlow St. Store closes 8 p. m.

H. W. SMITH'S HYBRID MOON VINE

(Ipomea Nactiflorum)

purest white, earliest moon vine in existence. Mr. A. W. Smith has the world-wide reputation of being the originator of the best moon vine seed in the country. **GODFREY ASCHMANN** of 1012 Ontario Street, Phila., is the wholesale grower for them, and has about 150,000 now ready 2 1/2 in. pots, \$5.00 per 100. Cash with order.

PHILADELPHIA NOTES.

W. E. McKissick has moved his office from upstairs to the rear of his store down stairs. The store arrangements have also been altered and improved, affording much needed facilities for the rapidly increasing business of this energetic young wholesaler.

Jno. Haubert of Bala has rented six large stores in six different locations uptown for the display and retail disposal of Easter plants.

Notwithstanding the severe loss and inconvenience they suffered by fire the past winter, Dennison Bros. had a splendid lot of Easter plants. Their hyacinths were the finest that were put on this market. Grand Maier, and Gertrude especially were a revelation.

Jno. H. Dodds, for many years superintendent on the estate of H. S. Hopper, and a popular member of the Florists' Club and Horticultural Society, goes to take charge of the Wanamaker place at Jenkintown May 1st.

The Battles establishments overflowed into a large annex at 12th and Sansom. In addition to a grand exhibition of Easter subjects the pottery display was unique. Etruscan vases, Pompeian ware, Majolica, Rosa du Barry and Oriental art objects made up an exposition in this line that has never been equalled by any retail floral establishment.

GERANIUMS

500 S. A. Nutt, 3 inch, very strong, per 100 \$3.50.

500 S. A. Nutt, 2 1-4 inch, very fine stock per 100 \$2.25.

200 Salvia, Bonfire, 3 inch, strong, per 100 \$3.00.

200 Ageratum, 'Gurney,' 3 inch, very strong, per 100 \$3.50.

Cash please

H. M. TOTMAN, Randolph, Vt

CALIFORNIA NOTES.

The California orchardists' worst foe, commonly known as the codlin moth, against which a war of extermination has been waged for the past two years, is to be the object of a new attack, and the locality selected for the experiment is the Pajaro Valley, the leading apple and berry producing section of California. The Pajaro Valley Orchardists' Association has just now secured enough money to carry on the work and will be assisted in their labors by some of the leading entomologists of the state, among them W. H. Volock of the University of California. To a reporter this week Professor Volock said: "The object of last year's work was to ascertain whether arsenate of lead would control and keep down the codlin moth. It was successful elsewhere, so we decided to try it here. Records were taken by counting the number of blighted apples that came from trees that were sprayed and trees that were not sprayed. A marked difference was shown.

"The percentage was as low as 1 per cent. in some cases among sprayed trees, while checked trees that had not been sprayed showed 15 per cent. of bad fruit. The worms were not generally so bad last year, but in the orchards of a section where the worms were very bad there was a loss of 40 per cent.

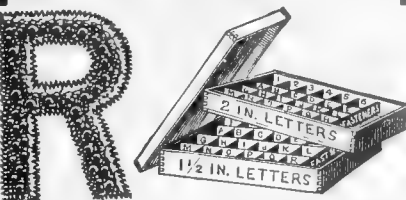
"But it remains to be shown how many applications of this poison are necessary and when they should be applied; and also which are the most important sprayings, the earlier or the late."

Horticulturists representative of San Mateo county, Cal., have prepared a contribution for the trade press, and given it to all San Francisco correspondents of publications devoted to the interests of growers of the country. It reads as follows:

"A leading editorial this week in The San Francisco Chronicle pleased the growers exceedingly. It takes exception to a change inaugurated several weeks ago by Willis T. Moore, chief of the Weather Bureau, wherein his subordinates were directed to cease collecting and giving out the accustomed weekly crop and horticultural reports. The bureau has a large corps of observers, all intelligent men, scattered in all parts of the State, and the crop reports rendered by them for years have been of real value. They have been regularly published in county seat papers throughout the State and have been a means by which producers could keep themselves fairly well informed of the general condition and progress of crops and germination peculiar to the commonwealth. We are aware that the collection of crop reports is not one of the duties imposed on the Weather Bureau by law, but as it costs nothing except a little time once a week in the central office to compile the reports and a trifle additional for printing, we want them continued. It has been done for years, and has been a great public convenience. But Mr. Moore has stopped their issuance, and for 'no good reason,' says the Chronicle, 'the bad reason being that an impudent bureaucrat intrusted with the power to be contrary and hateful has taken a notion that he will exhibit those qual-

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ities. This man Moore says we shall not have these horticultural reports any more. In this his course is not liked. It is not liked at all. The terms in which it and himself are being referred to in the current speech of the irreverent are forcible and expressive, but for the most part unfit to print. It is the general opinion that Moore's real reason for his action is a discreditable one, and the matter must not be permitted to drop. Congress should intervene and make Moore do what the horticulturalists of the country and people generally want done, and if he does not like it he can get out. There are others."

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TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		ST. LOUIS		PHILA.		BOSTON	
	April 10		April 9		April 9		April 12	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	40.00	to 50.00	35.00	to 40.00	30.00	to 40.00	20.00	to 35.00
" Extra.....	25.00	to 35.00	25.00	to 30.00	20.00	to 25.00	10.00	to 15.00
" No. 1.....	8.00	to 12.00	15.00	to 20.00	10.00	to 12.50	6.00	to 8.00
" Lower grades.....	.....	to	5.00	to 10.00	4.00	to 8.00	2.00	to 5.00
Bride & 'Maid—Fan. & Sp.....	8.00	to 12.00	10.00	to 12.50	.....	to 12.00	8.00	to 12.00
" Extra.....	8.00	to 10.00	6.00	to 8.00	8.00	to 10.00	4.00	to 6.00
" No. 1 and Lower gr.....	4.00	to 6.00	4.00	to 5.00	2.00	to 6.00	1.00	to 5.00
Liberty, Fancy.....	8.00	to 12.00	.....	to	15.00	to 20.00	12.00	to 25.00
" Ordinary.....	4.00	to 6.00	.....	to	8.00	to 10.00	2.00	to 6.00
Richmond, Fancy.....	8.00	to 12.00	10.00	to 12.50	15.00	to 20.00	10.00	to 15.00
" Ordinary.....	4.00	to 6.00	6.00	to 8.00	10.00	to 12.50	6.00	to 8.00
Golden Gate, Fancy.....	8.00	to 10.00	10.00	to 12.50	8.00	to 10.00	6.00	to 8.00
" Ordinary.....	4.00	to 6.00	6.00	to 8.00	4.00	to 6.00	1.00	to 4.00
Chatenay, Fancy.....	8.00	to 10.00	5.00	to 6.00	12.00	to 15.00	6.00	to 8.00
" Ordinary.....	4.00	to 6.00	3.00	to 4.00	4.00	to 6.00	1.00	to 3.00
CARNATIONS								
Fancy.....	5.00	to 6.00	3.00	to 4.00	4.00	to 5.00	2.00	to 3.00
Ordinary.....	2.00	to 3.00	2.00	to 2.50	2.00	to 3.00	1.00	to 1.50
MISCELLANEOUS								
Cattleyas.....	12.50	to 15.00	10.00	to 12.50	10.00	to 12.50	8.00	to 12.00
Lilies.....	10.00	to 15.00	10.00	to 12.50	12.50	to 15.00	8.00	to 12.00
Callas.....	2.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00
Lily of the Valley.....	.75	to 1.00	.25	to .50	.75	to 1.00	.35	to .75
Violets.....	2.00	to 4.00	3.00	to 5.00	3.00	to 4.00	1.00	to 2.00
Tulips.....	2.00	to 5.00	.....	to	2.00	to 3.00	1.00	to 1.50
Roman Hyac. Paper White, Nar.....	2.00	to 3.00	.....	to	1.00	to 3.00	.75	to 1.00
Daffodils; Trumpets.....	.....	to .....	.....	to .....	.75	to 1.50	.....	to
Sweet Peas.....	.....	to	3.00	to 6.00	2.00	to 3.00	.....	to 2.00
Mignonette.....	.50	to 1.00	.....	to 1.00	.75	to 1.00	.75	to 1.50
Adiantum Cuneatum.....	.....	to .....	.....	to	1.50	to 2.00	.....	to 1.50
" Croweanum.....	10.00	to 15.00	.....	to 15.00	15.00	to 20.00	12.00	to 16.00
Smilax.....	25.00	to 40.00	25.00	to 50.00	.....	to 50.00	.....	to 50.00
Asparagus Plumosus, strings.....	25.00	to 40.00	25.00	to 50.00	35.00	to 50.00	20.00	to 50.00
" " & Sprenger bunches.....	10.00	to 15.00	to 75.00	to 50.00	to
Lilacs per 100 bunches.....	to	to	to	to

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EDWARD REID, Wholesale
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Store Closes 8 P. M.

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Roses and
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A Specialty.....

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GROWER OF CUT FLOWERS

VICTORY

We do not need to advertise Victory aggressively any longer. We are making prompt deliveries of Cuttings daily and are giving universal satisfaction. ENOUGH SAID!

CUT FLOWER MARKET REPORTS

BOSTON Prices went up at the beginning of the week on choice stock, and the light supply has helped to maintain same, although the immediate demand has been insignificant. Growers are holding back their product, either on the plants or in caves, and nobody knows just what to expect for Easter, the general impression being, however, that there will be a large supply of all kinds of flowers when the sun rises on Easter Saturday morning. There have been practically no violets in the city for the past two days. The weather has been dark, but not cold, and there is no reason why there should not be an abundance of material at reasonable figures. Lilies are exceptionally good as a rule, and advance orders are very heavy. Callas move slowly. Welch Bros. report the largest advance orders ever placed for Easter, and the problem is, with them, not a question of orders, but of turning over the stuff for delivery. McCarthy reports an unprecedented demand for lilies.

BUFFALO The past week found the market in somewhat better condition, although stock seemed to be somewhat plentiful in most lines. The latter part of the week found the market strong in carnations, which were not so plentiful and prices were somewhat better. Roses and bulbous stuff seemed to continue coming in faster than could be disposed of; prices had not changed much. Demand was fairly good on Harrisii lilies and callas, and at the end of week they were pretty well sold out. Greens were in fair supply and demand somewhat greater than usual. Other flowers in medium supply. The coming week is looked for to be one of the busiest of the season, and all are making preparations for a big Easter trade.

CHICAGO Easter week opened up with fewer advanced orders on the wholesalers' books than in former years, but Sunday's and Monday's mail brought in the orders up to, and at present writing, ahead of last year. The call is for white stock, as is to be expected, but colored stock is in demand to an unusual degree this season. Plant sales have been heavier by the plant growers, and retailers are stocking up this class of goods, and the displays in Samuelson's, Mangle's and Weinhoeber's are truly magnificent. Rustic and twig basket are being used with artistic effect, especially with bulbous stock in bloom. Beauties not up to the standard of some years, but good stock and clear color is in abundance. Except on 20 to 24 inch, they will be

somewhat short of demand. Brides take the lead in teas; Richmond comes next, and Bridesmaid a close third. Quality all the way from top notch to weak stems and open buds. One thing to be noticed is that the retailers are asking for some of the new roses. Orr English, Killarney, Moulton, and Joe Hill are in demand by the best class of trade. Carnations are plenty and good. Bountiful and Enchantress easily have the call, but Lawson and White Clouds are moving well, and no over-supply of any well-grown variety is looked for. Growers are rapidly realizing the disastrous effect of "pickling," and little of this stock is looked for this season by the trade. The estimated crop of lilies locally grown is 160,000 blooms, with receipts from outside sources of about 25,000 to 35,000. Fully 60 per cent. will be marketed in pots; balance cut. Growers have "hit it right" this season; for quality and size of buds, never was stock finer, and while a good many are rather short stems, they move well in pans of 3 to 5 stalks each. We notice a larger propagation of giganteums grown than formerly. Prices hold firm at \$12.50 per 100; \$15 for extra fine is easily obtained. Lily of the valley is abundant; callas in demand; tulips not as plentiful as usual, but enough to fill early calls. Narcissus fine and in over-supply, except for choice sorts; violets will be short, especially single, as the local stock is about exhausted and Hudson River stock will be the source of 75 per cent. of receipts; prices firm. Pansies, lilac, marguerites, sweet peas, mignonette and other small cut stock are in almost all the retailers' show windows. In greens, fancy ferns, Sprenger and boxwood are leading in call. Smilax strings scarce, and good asparagus bunches none too plentiful, while the asparagus strings are in over-abundance. Wild smilax is in heavy demand and of fine quality for the late season. Azalea plants are in fine form, and retailers are well stocked. I noticed some beautiful Ramblers and rhododendrons in the retailers' windows. Bulbs in bloom planted in attractive baskets are in evidence in al-

most all the stores and cannot fail to bring good returns. All look forward to the most prosperous trade Chicago has ever known.

NEW YORK The supply of small roses is lighter than last week, and a tendency toward higher prices is noted in the case of these and of carnations. The requirements of the retail market are very light, however, and easily satisfied. Business is exceedingly quiet on all sides, and there is but little yet on which any estimate can be based as to what and how much of it will be wanted for Easter.

PHILADELPHIA Trade conditions the past week were satisfactory. Saturday was one of the best days, but notwithstanding this little spurt much good stock went to the street men. The feature of the rose market was the extra choice quality of the Chateaus and Killarneys coming in. Beauties went pretty well, although we hear of some lots that went at abnormally low figures. Carnations have shortened up considerably, but no scarcity is anticipated for Easter unless perhaps in Enchantress and one or two other varieties. Violets also shortened up, with a corresponding stiffening in prices. Cut lilies are in good demand. Lily of the valley is still over-plentiful.

BUSINESS CHANGES.

Sidney Hoffman has sold out his lease of the store he has occupied for the past year on Bromfield street, Boston. The place has been taken by a watchmaker.



DAGGER FERNS.

FERNS

Dagger Ferns

and

Galax Leaves

Bronze or Green Galax, \$1.00 per 1000; \$7.00 per case. Dagger Ferns, A 1 stock, \$1.00 per

1000. Special for Easter, 85c. in lots of 10,000 or over. Stock guaranteed first class.

A. L. FORTUNES, 431 State Street, New Haven, Conn.

No. 1 DAGGER FERNS, \$1.25 per 1000; Fancy, 1.50



Brilliant Bronze or Green GALAX, 75c per 1000, 10,000 lots \$6.50

Southern Smilax 50-lb. case \$5.50

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all winter, and gathered daily fresh from the woods, 4c, 5c and 6c per yard. Sample lot on application. BRANCH LAUREL, 35c per large bundle. Fine line of Trees for decorating purposes. Try the beautiful Pine. Telephone or telegraph orders will receive prompt attention.

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send your flowers to
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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Apr. 7 1906		First Half of Week beginning Apr. 9 1906			Last Half of Week ending Apr. 7 1906		First Half of Week beginning Apr. 9 1906	
Roses					Carnations, Ordinary	1.00 to 2.00	1.50 to 2.00		
Am. Beauty and Edgeley fan and sp.	15.00 to 20.00	20.00 to 25.00	10.00 to 12.00	10.00 to 12.00	Cattleyas	50.00 to 75.00	50.00 to 60.00		
" extra	10.00 to 12.00	10.00 to 12.00	6.00 to 8.00	6.00 to 8.00	Lilies	4.00 to 10.00	6.00 to 10.00		
" No. 1	5.00 to 8.00	6.00 to 10.00	1.00 to 3.00	1.00 to 4.00	Callas	4.00 to 8.00	8.00 to 10.00		
" Lower grades	1.00 to 3.00	1.00 to 4.00	5.00 to 8.00	5.00 to 8.00	Lily of the Valley	1.00 to 2.00	1.00 to 3.00		
Bride & 'Maid, fan and sp.	4.00 to 6.00	5.00 to 8.00	3.00 to 5.00	3.00 to 5.00	Violets	.10 to .40	.30 to .60		
" extra	3.00 to 4.00	3.00 to 5.00	1.50 to 3.00	1.50 to 3.00	Tulips	1.00 to 3.00	1.50 to 4.00		
" No. 1 and lower grades	1.00 to 2.00	1.50 to 3.00	1.00 to 2.00	1.00 to 2.00	Roman Hyac. Paper White Nar.	1.00 to 2.00	1.00 to 2.00		
Liberty, fancy	3.00 to 12.00	10.00 to 20.00	1.00 to 2.00	1.00 to 2.00	Daffodils, Trumpets	1.00 to 2.00	1.00 to 2.00		
" ordinary	.50 to 2.00	3.00 to 6.00	1.00 to 2.00	1.00 to 2.00	Sweet Peas	1.00 to 2.00	.25 to 1.00		
Richmond, fancy	8.00 to 12.00	10.00 to 20.00	1.00 to 2.00	1.00 to 2.00	Nigronette	.50 to 3.00	1.00 to 4.00		
" ordinary	2.00 to 6.00	3.00 to 8.00	1.00 to 2.00	1.00 to 2.00	Adiantum Cincatum	.50 to 1.00	.50 to 1.00		
Golden Gate, fan y.	4.00 to 5.00	5.00 to 10.00	2.00 to 3.00	2.00 to 3.00	" Croweanum	1.00 to 1.50	1.00 to 1.50		
" ordinary	.50 to 3.00	2.00 to 5.00	8.00 to 12.00	8.00 to 12.00	Smilax	4.00 to 20.00	15.00 to 25.00		
Chatenay, fancy	4.00 to 8.00	8.00 to 12.00	2.00 to 5.00	2.00 to 5.00	Asparagus Plumosus	15.00 to 35.00	25.00 to 35.00		
" ordinary	.50 to 3.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	" & Sprengeri, bunches	8.00 to 25.00	15.00 to 25.00		
Carnations, Fancy	2.00 to 3.00	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00	Lilac4 per 100 bunches	25.00 to 75.00	25.00 to 75.00		

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Wholesale **FLORIST**
51 West 28th St., New York
Telephone. 4463-4464 Madison Sq.
Best Beauties, Brides and Bridesmaids.
Lily of the Valley, Orchids and
Lilies. Renowned Cottage
Garden Carnations.

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Wholesale Florist
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WHOLESALE FLORISTS
Furnish best stock at fair prices all the year round Send for quotations on fall orders
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\$2.00 per 1000

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Commission Merchants in Cut Flowers

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ALFRED H. LANGJAHR

All Choice Cut Flowers in Season

55 West 28th St., New York

Telephone 3924 Madison Square.

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Consignments received, sold well
and returns made promptly.

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WHOLESALE and COMMISSION FLORIST

115 W. 30th St., New York

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Wanted.—A few more reliable growers of
Carnations and Violets. Quick returns and
highest prices.

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First class, early grafted, Brides
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lish stock. Prices \$10.00 and
\$12.00 per hundred. See sam-
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Market.

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Montrose, Mass.

Headquarters in Western New York

FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

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BUFFALO, N. Y.

Give us a trial. We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

NEW CROP SOUTHERN WILD SMILAX \$3.50 and \$7.00 per Case.

Headquarters for all FLORISTS' SUPPLIES. Wire
Designs, Cut Wire, Letters, Immortelles, Cycas Leaves,
Wheat Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
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TO DEALERS ONLY.

	CINCINNATI April 11	DETROIT April 10	BUFFALO April 10	PITTSBURG April 11
ROSES				
Am. Beauty and Eigely, fan and sp.	50.00	40.00	50.00	45.00
" extra	30.00	40.00	30.00	25.00
" No. 1	20.00	25.00	20.00	15.00
" Lower grades	10.00	15.00	10.00	10.00
Bride and Maid, fan, and sp.	18.00	10.00	12.00	15.00
" extra	10.00	15.00	7.00	10.00
" No. 1 and Lower gr	5.00	8.00	4.00	7.00
Liberty, fancy	12.00	15.00	10.00	12.00
" Ordinary	8.00	5.00	8.00	10.00
Richmond, Fancy	10.00	10.00	12.00	15.00
" Ordinary	6.00	4.00	7.00	8.00
Golden Gate, Fancy	12.00	15.00	10.00	12.00
" Ordinary	6.00	8.00	4.00	6.00
Chatenay, Fancy	10.00	10.00	12.00	15.00
" Ordinary	4.00	4.00	8.00	10.00
CARNATIONS				
Fancy	4.00	6.00	4.00	5.00
Ordinary	2.00	3.00	2.00	3.00
MISCELLANEOUS				
Cattleyas	12.50	15.00	10.00	15.00
Lilies	10.00	12.00	12.50	10.00
Callas	3.00	4.00	3.00	4.00
Lily of the Valley	1.50	1.00	.75	1.00
Violets	3.00	5.00	3.00	4.00
Tulips	3.00	4.00	2.00	4.00
Roman Hya.; Paper White Nar.	3.00	4.00	3.00	4.00
Daffodils; Trumpets	3.00	4.00	2.00	4.00
Sweet Peas	.75	1.00	.75	1.00
Mignonette	1.00	1.00	1.00	1.00
Adiantum Cuneatum	1.00	1.00	1.00	1.00
Crowneum	1.00	1.00	1.00	1.00
Smilax	12.50	15.00	10.00	15.00
Asparagus Plumosus, strings	3.00	4.00	3.00	4.00
" & Sprengeri, bunches	3.00	4.00	3.00	4.00
Lilacs per 100 bunches	40.00	50.00	40.00	50.00

Geo. A. Sutherland Co.

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Florists' Supplies and Letters

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E. A. BEAVEN

Wholesale Dealer in

SOUTHERN WILD SMILAX

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New crop now ready in limited quantities
EVERGREEN, ALA.

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Fancy and Dagger Ferns, Galax and Leucothoe,
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Flosses Leaf Mold. Orchid and Azalia Peas, Fresh,
cut Palmetto and Cycas Palm leaves. Wild Smilax
—Boxwood. All Decorating Evergreens.

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Tel. 1519 Madison Sq.

20 West 27th St.
NEW YORK.

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Asparagus Sprengeri, 2 1-2 in., \$2.25 per 100. Otto Bourdy, Lowell, Mass.

Asparagus Sprengeri, fine 2-in. stock, \$1.50 per 100. Need the room. Address Cal. Richardson, Waverly, Ill.

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Asters, nice strong plants. Queen of Market, Semples, Carlson, separate colors, 35c. per 100 by mail; \$3.00 per 1000 by express. S. W. Pike, St. Charles, Ill.

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CACTI.

Old Man's Head, 4 to 5 in., \$20.00 per 100. Cacti, medium size, 10 assorted varieties, \$10.00 per 100; 15 assorted varieties, \$15.00 per 100.
Price includes prepaid mail. Headquarters for cacti, orchids, bulbs, etc.
J. A. McDowell, Ap. 157, City of Mexico.

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Canna Alemana, dry or started roots, \$2.00 per 100. J. H. Krone, Jr., Fort Smith, Ark.

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G. S. Kalb, Florence Teal, Glory of Pacific, Polly Rose, Willowbrook, Golden Trophy, Robt. Hailday, D. W. Childs, John Shrimpton, Maj. Bonnafan, Col. Appleton, Nivius, Bride, Pink Ivory, White Ivory, Vivand Morel, Cullingfordii, Ermanilda, Arelina, Nagoya, Maud Dean, Mutual Friend, W. H. Lincoln, Black Hawk, Jerome Jones, F. G. Jones, Golden Wedding, Timothy Eaton, Mme. F. Perrin, Wm. Duckham, \$1.50 per 100; \$12.50 per 1000. Address W. F. Kasting, 383-387 Ellicott St., Buffalo, N. Y.

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CLEMATIS.

Clematis paniculata, 2-yr., transp., \$6 per 100; 1-yr., strong, \$4 per 100. E. Y. Teas, Centerville, Ind.

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Coreopsis lanceolata, 2 1-2 in. pots, \$2.50 per 100. E. Y. Teas, Centerville, Ind.

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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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Ferns for jardineres, good varieties, \$3.00 per 100, cash. J. H. Flesser, 415 Summit Avenue, West Hoboken, N. J.

Ferns, Japanese or Mikado fern ball, new importation now in and ready for shipment, in dormant condition; 8 inc. in diameter, \$2.25 per doz., \$18 per 100 f. o. b. Crossman Bros., Rochester, N. Y.

FERTILIZERS.

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FEVERFEW.

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GENISTAS.

Thomas Roland, Nahant, Mass.

GERANIUMS.

Geraniums, large top cuttings, well rooted: Peter Henderson, \$2.50 per 100; Trego, \$2.00 per 100, \$18.00 per 1000; S. A. Nutt, Mrs. E. G. Hill, Beaute Potievine, Jean Vland, Mme. Buckner (best white), \$1.50 per 100, \$14.00 per 1000. The W. T. Buckley Co., Springfield, Ill.

GLADIOLI.

Arthur Cowee, Meadowlake Farm, Berlin, N. Y.
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John Lewis Childs, Floral Park, N. Y.
Gladiolus America.

Gladioli. Colors, mixtures and named. All sizes. Also bulbets. E. E. Stewart, Rives Junction, Mich.

Groff's Hybrid Gladioli: A No. 1 stock, true to name all shades including the coveted blue varieties: 1-12 to 2 in., \$10.00 per 1000, \$1.50 per 100; 1 to 1-12 in., \$8.00 per 1000, \$1.25 per 100; 3-4 in. to 1 in., \$6.00 per 1000, 75c. per 100; 1-2 to 3-4 in., \$5.00 per 1000, 60c. per 100. A. B. Powell, Camden, N. Y.

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Anchor Greenhouse Hose is the best for Florists.
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Hydrangea Otaska, 3-in., \$4.00 per 100; 4-in., \$8.00 per 100; 5-in., \$2.00 per doz., \$12.00 per 100; 6-in., \$3.00 per doz. Large plants from 10 in. pots, fine stock lawn decoration at \$1.00 each; Dracaena Indivisa, 2 in., \$2.00 per 100; 3 in., \$4.00 per 100; Jemene, strong bulbs, \$3.00 per 100. Chrysanthemums, clean stock, Pally Rose (plant early for best results); Ivory, Alice Byron, best white to date; Halliday and 20 other stand. Sorts, R. C., \$1.00 per 100; potted plants, \$2.00 per 100. E. Fryer, Johnstown, Pa.

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MOONVINES.

Moonvines, 2 1-2 in., strong plants, \$3.00 per 100. John Heidenreich, Indianapolis, Ind.

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NIKOTEEN APHIS PUNK.

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Pallsades Nurseries, Sparkill, N. Y.

2,000 Norway Maples transplanted, straight and fine stock, 2 to 5 feet. Cheap for cash, or will exchange for some kinds of stock. O. C. Bailey, Newburyport, Mass.

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Patents, Trade Marks, and Copyrights.
25 years' active practice.
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M. H. Walsh, Woods Hole, Mass.
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PRIMULA OBCONICA.

O. V. Zangeu, Hoboken, N. J.
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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

RETAIL FLORISTS.

Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.

Alex. McConnell, New York.
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Thomas Young, Jr., New York.
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Fred C. Weber, 426 Olive St., St. Louis, Mo.
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J. Brettmeyer's Sons, Detroit, Mich.
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Young & Nugent, New York.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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Gude Bros. Co., 1214 F St.,
Washington, D. C.

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Eyes, 11 N. Pearl St., Albany, N. Y.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pye, Upper Nyack, N. Y.
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Rose Hill Nurseries, New Rochelle, N. Y.
Roses, Killarney.

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Montrose Greenhouses, Montrose, Mass.
Grafted Roses.

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H. T. Jones, Union Co., N. Carolina, Ellaz-
beth, N. J.

American Garden Roses.
The E. G. Hill Co., Richmond, Ind.
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ROSES—Continued.

Minneapolis Floral Co., Minneapolis, Minn.
Rose Miss Kate Moulton.

Creeping Roses, 2 years, \$6.00 per 100.
The Elizabeth Nursery Co., Elizabeth, N. J.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall Sq., Boston.

Thos. J. Grey & Co., 32 S. Market St.,
Boston.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.

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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co.,
36 Cortlandt St., New York.

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H. F. Mitchell Co., 1018 Market St.,
Philadelphia, Pa.

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R. & J. Farquhar & Co., Boston.

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Weeber & Don, 114 Chambers St., N. Y.
Vegetable and Flower Seeds.

H. A. Dreer, Philadelphia.

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Wm. Elliott & Sons, 261 Fulton St., N. Y.
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Schlegel & Fottler Co., 26 S. Market St.,
Boston.

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Peter S. Reid, Oratava, Teneriffe.

Bermuda Onion Seed.

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Seeds, 100,000 fresh greenhouse grown
Asparagus plumosus seed, \$2.50 per 1,000
on large lots. Henry Young, Ada, O.

Conrad Appel, Darmstadt, Germany. Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montclair, N. J.
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SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
St., Boston.

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E. A. Beaven, Evergreen, Ala.

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SPHAGNUM; CEDAR POLES.

H. R. Akers, Chatsworth, N. J.
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TOMATO AND PLANT SUPPORTS.

Igoe Bros., 226 North 9th St.,
Brooklyn, N. Y.

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VENTILATING APPARATUS.

Lord & Burnham Co.,
1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Square,
New York.

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Hitchings & Co., 1170 Broadway,
New York.

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John A. Scollay, 73-75 Myrtle Ave.,
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Weathered Co., 46 and 48 Marion St.,
New York.

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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.

J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

VERBENAS.

The new verbenas, Ellen Willmott, the
finest corse pink in existence, rooted cut-
tings, \$2.50 100. Cash. W. W. Stertzing,
7280 Old Manchester, St. Louis, Mo.

VINCAS.

35,000 myrtle, Vinca minor, \$10.00 to
\$50.00 per 1000. S. J. Galloway, Eaton,
Ohio.

Vinca minor var., 2 1-2 in. pots, \$4 per
100. E. Y. Teas, Centerville, Ind.

VIOLETS.

H. R. Carlton, Willoughby, O.
Violet Gov. Herriek

WIREWORK.

Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

MISCELLANEOUS.

Floral photographs. Foley's, 226-228 1-2
Bowery, New York.

WHOLESALE FLORISTS.

Boston.

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ton.

George A. Sutherland Co., 34 Hawley St.,
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Welch Bros., 15 Province St., Boston.

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J. A. Budlong, 37 Randolph St., Chicago.

E. H. Hunt, 76-78 Wabash Ave., Chicago.

Chas. W. McKellar, 51 Wabash Av., Chicago.

Peter Reinberg, 51 Wabash Av., Chicago.

A. L. Randall Co., 21 Randolph St., Chicago.

Wietor Bros., 51 Wabash Av., Chicago.

Vaughan & Sperry, 60 Wabash Av., Chicago.

E. F. Wintererson Co., 45, 47, 49 Wabash
Av., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.

Wm. Murphy, 128 E. 3d St.

Detroit.

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York.

J. S. Fenrich, 110 W. 28th St., New York.

Ford Bros., 48 West 28th St., New York.

H. E. Froment, 57 W. 28th St., New York.

Alex. J. Guttman, 43 West 28th St.

E. C. Horan, 55 West 28th St., New York.

Philip F. Kessler, 55 W. 26th St., New
York.

Julius Lang, 53 West 30th St., New York.

A. H. Langjahr, 55 W. 28th St., New York.

James McManus, 50 W. 30th St., New York.

Chas. Millang, 50 West 29th St., New York.

Frank Millang, 55-57 W. 26th St., New
York.

A. Moltz, 55-57 W. 26th St., New York.

John J. Perkins, 115 W. 30th St., New York.

John I. Raynor, 49 W. 28th St., New York.

W. F. Sheridan, 39 W. 28th St., New York.

Traendly & Schenck, 44 W. 28th St., N. Y.

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Leo Niessen Co., 1217 Arch St., Phila-
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S. S. Pennock, 1612-18 Ludlow St., Phila-
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Pittsburg.

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Pittsburg Cut Flower Co., Ltd., 504
Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pitts-
burg.

New Offers in This Issue.

CHRYSANTHEMUMS: VIOLET,
LADY CAMPBELL.

Wm. Swayne, Kennett Square, Pa.
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DAHLIA, A. D. LIVONI.

W. C. Jennison, 30 Worcester St.,
Natick, Mass.
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GERANIUMS: SALVIAS, AGERA-
TUM.

H. M. Totman, Randolph, Vt.
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MOONVINES.

Godfrey Aschmann, 1012 Ontario St., Phila.
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CUT FLOWER MARKET REPORTS.

COLUMBUS On every side the greatest preparations are being made for Easter; the florists, without exception, have very fine stocks of both flowers and flowering plants. Lilies look especially well; there are plenty of Ramblers in bloom and a brisk demand for them; other stock in good shape. There was no particular change in the prices this past week; roses perhaps are in better demand. Indications are that flowering plants will sell even better at Easter than they did last year, when the quantity put out surprised even the oldest members of the craft.

LOUISVILLE Business conditions last week were exceptionally good. Carnations have had a brisk demand. The supply is fair and the quality very good. Roses of good quality can be had in great quantities. Violets and lilies of the valley find ready sale, and the supply and quality are generally satisfactory. Mignonette, hyacinths, jonquils, tulips and other seasonable stock can be had in good quantities, with the sale generally satisfactory. There will no doubt be a great supply of stock for Easter in nearly all lines.

MINNEAPOLIS Cut flowers for Easter are good, but the supply is short. Plants are in great abundance and prime condition. Azaleas, hydrangeas and all kinds of rose plants are beautiful and sell readily at the top prices. Bulb stock is good, as are also the carnations and roses, but we are going to have trouble in supplying the demand. Everything points to a rush of business the last of the week, and the greenhouse stock has been sold out for some time. Talk about new roses! With Miss Kate Moulton in Minneapolis, and the charming Minnehaha in St. Paul, we can hold our heads high, and if any of our eastern friends thing we westerners are slow, just let them see our new roses. We can "show them." Miss Kate Moulton is by this time well known, and she is keeping up her reputation to the letter. Minnehaha is a natural sport from the Princess of Wales. The foliage is heavy and dark and makes a fine appearance. The rose is a shell pink, and has splendid lasting qualities.

EASTER PROSPECTS AT NEWPORT.

Every indication points to a good business all round for Easter. All that portion of the stock which Newport growers will be able to supply the dealers is in good condition. Lilies are in better shape than was thought probable some time ago, other bulbous stuff is plentiful in supply at present, but it is not thought that there will be sufficient for the Easter demand. Prices quoted are in advance of last year—two cents at least on lilies, and other lines higher in proportion. One or two dealers are already showing a little more enterprise than usual in the way of making tasteful displays in their windows in order to give an idea of what can be had when the time for purchasing comes.

Plants are higher than last year, but to counteract this they are of better quality. Spireas are especially good

with one dealer, while with some others they are of a quality that would give any one the idea that flowering plants are either very scarce or in great demand. Most of the plants in the stores except lilies were purchased from growers in the vicinity of New York and Boston, and some from Providence.

LARCENY OF COLIC.

Leominster, April 7.—George M. Kendall reported to the police today that his lower greenhouse on Main street was broken into and some of his greenhouse cucumbers stolen.

The greenhouse was entered by the breaking of some of the glass through which the thief or thieves crawled, got their pockets filled with the nightmare producers, then skipped. It is thought that the work was done by boys. The police are working on the case today, and are watching the stores where jamaica ginger is sold, for clues.—Worcester Telegram.

A CYANIDING DEVICE.

A contrivance for use in applying hydrocyanic acid as a fumigant in greenhouses has been perfected in England under the name of Edward's Safety Cyaniding Machine. It is simply a framework over the bowl of sulphuric acid and water, to support a scoop containing the cyanide, with a lever and string, whereby the cyanide salt is dumped into the bowl after the operator is outside the building.

CATALOGUES RECEIVED.

The Good & Reese Company, Springfield, O., Wholesale Trade List of Plants, hardy and tender.

Conard & Jones Company, West Grove, Pa. Trade price list for 1906. Devoted largely to roses and cannas.

Shady Hill Nursery Company, Bedford, Mass. Summary of most desirable novelties and best among older tested varieties of trees, shrubs and herbaceous perennials.

GREENHOUSES BUILDING AND PROJECTED.

Lexington, Mass.—D. F. Hutchinson, one house.

Rockland, Mass.—W. H. Wyman, two houses.

Braintree, Mass.—H. Waldecker & Bro., one house.

Norwell, Mass.—Charles Berry, two houses, each 165 feet long.

Saginaw, Mich.—Wm. Roethke Floral Co., range of houses.

Bryantville, Mass.—Halifax Garden Co., forcing house, 60x1200.

Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co., two houses, 55x300.

YOU } WANT { ORDERS
WE } WANT { ADVERTISING
LET US GET TOGETHER

When You

buy tobacco dust to burn from a seedsman, thinking it is **THE FUMIGATING KIND TOBACCO POWDER**, ask him if the bags bear our brand, name and address; if they do not, you are getting his substitute for it—ground stems—and not **THE FUMIGATING KIND TOBACCO POWDER** made from the pure leaf tobacco, which seedsmen seldom keep, as our price to you and to them is the same. You can try ours for a few cents; let us tell you how.

THE H. A. STOOOTHOFF CO.
Tobacco Powder Hobbyists,
116 West Street, New York.

Carman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse.
Nonpoisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. \$1.50 per gallon. Also in quarts, half gallons and in bulk. Send for circulars.

PERFECTION CHEMICAL CO.,
Flushing, N. Y.

WEATHERED COMPANY

46 MARION ST., NEW YORK

GREENHOUSE BUILDING AND HEATING

Send for Catalogue.

WANTS

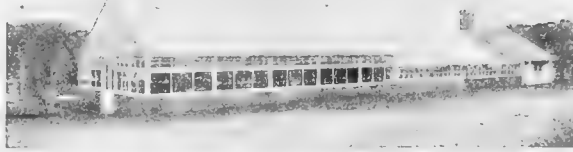
Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR SALE—Two greenhouses, 23x95, 20x68, with hot water heating apparatus and well stocked with Carnations and Violets. Will sell as it is with dwelling house attached and 17,000 feet of land, or to be taken down and removed. Address 703 Chestnut St., Waban, Mass.

SITUATION WANTED—By first class rose grower competent to take entire charge of place of any size. Have had full charge of two large places during the past twelve years; have produced first class stock and paid well; married. Address J. P. M., 84 Hawley Street, Boston, Mass.

WANTED—An assistant capable of handling the vegetable and fruit growing work outside in a large private garden. Wages, \$50. James Holloway, "Dorsoris Park," Glen Cove, L. I., N. Y.

Heating a Greenhouse

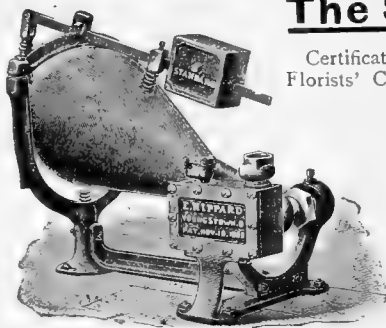


is not a matter of mere installation of a boiler, the laying of pipe—it's the accurate, practical knowledge of plant requirements and heat engineering. 60 years of boiler test is one thing, and the laying of pipe another.

Get the right people to do the right thing.

HITCHINGS & COMPANY,
Greenhouse Designers and Builders,
Manufacturers of Heating and Ventilating Apparatus
1170 BROADWAY - - NEW YORK

The Standard Steam Trap



Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.


E. HIPPARD, Youngstown, Ohio

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

Holds Glass Firmly
See the Point 
PEERLESS
Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.

BY SLIPPING A

PEERLESS GLASS REPAIR CLAMP

over a cracked glass you protect your stock, save coal and glass. Do it now before the high winds play havoc with your roofs. \$1.00 will repair 150 lights. Ask your supply man, or

A. KLOKNER, Wauwatosa, Wis.

Endorsed by about 400 prominent florists.

Standard Flower POTS

If your greenhouses are within 50 miles of the Capital, write us, we can save you money

W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.



STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/4 " " " "	5.25	60 8 " " " "	3.50
1500 2 1/2 " " " "	6.00	HAND MADE	
1000 3 " " " "	5.00	48 9 in. pots in crate	\$5.60
800 3 1/2 " " " "	5.80	48 10 " " " "	4.80
500 4 " " " "	4.50	24 11 " " " "	3.60
320 5 " " " "	4.51	24 12 " " " "	4.00
144 6 " " " "	.16	12 14 " " " "	4.80

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

LET IT STRIKE YOU

FOLEY MFG. CO.
471 W. 22nd ST. CHICAGO.

GREENHOUSE MATERIAL
OF ALL KINDS
HOT-BED SASH VENTILATING APPARATUS
FITTINGS &c.
SEND FOR FREE ILLUSTRATED CATALOGUE

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active practice. SPECIALTY: "Working on the Failures of Others"

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE

BY MAIL. For particulars address

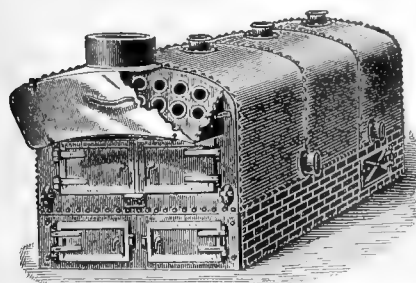
John G. Esler, Saddle River, N. J.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

35 Erie Street, CHICAGO.



Boilers made of the best material; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

FOR SALE

GARDEN HOSE New $\frac{3}{4}$ -in., guaranteed 100 lbs. pressure, $7\frac{1}{2}$ cts. per ft. $\frac{1}{2}$ -in. not guaranteed, $4\frac{3}{4}$ cts. per ft.

HOT-BED SASH New Cypress, 3 ft. x 6 ft. from 75 cts. up; glazed, complete, from \$7.60 up. Second-hand, in good condition, all glass in, at \$1.25 and \$1.00 each

PIPE Good serviceable second-hand, with Threads: 2-in., 7 cts.; $1\frac{1}{2}$ -in., $5\frac{1}{2}$ cts.; $1\frac{1}{4}$ -in., 4 cts.; 1-in., 3 cts.; $\frac{3}{4}$ -in., 10 cts.; 3-in. 14 cts.; 4-in., 19 cts. New 2-in. Standard, full lengths, with couplings, $8\frac{3}{4}$ cts. ft. Old and new fittings and valves.

GLASS New American 10x12 single \$1.75, per box; 12x12 single \$1.90, per box. 10x12, 12x12, 10x15, double \$2.05, per box. 12x14, 12x20, 14x14, 14x20, double, \$2.88, per box. 16x16, 16x18, \$3.10; 16x24, double, \$3.30 per box.

Get Our Prices On
BOILERS, PUMPS, STILLSON WRENCHES,
STOCKS AND DIES, PIPE CUTTERS, PIPE
VISES, CYPRESS-MATERIAL, ETC.

METROPOLITAN
MATERIAL CO.

1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.

SEND FOR CATALOGUE OF
SCOLLY HOT WATER
and STEAM BOILERS

JOHN A. SCOLLY

73 and 75 Myrtle Avenue

BOROUGH OF BROOKLYN, N. Y. CITY



GREENHOUSE CONSTRUCTION
LUMBER

John C. Moninger Co.

117 E. Blackhawk St., CHICAGO

**U-BAR REASON**

NUMBER SIX

You want light — and lots of it — want it straight from old Sol in all its strength giving power.

U-BAR GREENHOUSES

Are the Best Greenhouses Built

because there is no house as light. No form of construction so successfully employs 24 inch glass between bars. This means just one-third the bars, one-third less shade.

KNOW U-BAR REASON
BEFORE YOU BUILD A GREENHOUSE

PIERSON U-BAR COMPANY

Designers and Builders

U-BAR GREENHOUSES

Metropolitan Bldg., 4th Ave. and 23rd St.

NEW YORK

**GURNEY HEATERS**

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE 111 FIFTH AVE

74 FRANKLIN ST. BOSTON

STANDARD PLATE GLASS CO.

Manufacturers, Importers and Jobbers

AMERICAN AND FRENCH GREENHOUSE GLASS

26-30 Sudbury Street

61-63 Portland Street

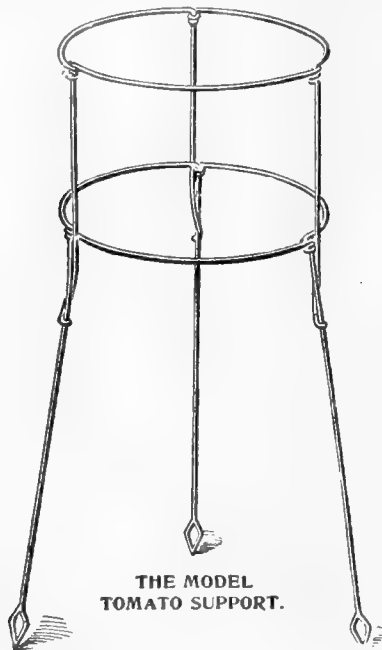
BOSTON, MASS.

TO BUYERS

Patronize our advertisers, they will treat you right

**The Only Perfect
Tomato and Plant Support**
Made of Heavy Galvanized Wire

\$1.75 per Dozen



\$12.00 per 100

THE MODEL
TOMATO SUPPORT.

Height complete	34 inches
" of bottom section	24 "
" " top "	12 "
Diameter of circle	14 "

Manufactured by **IGOE BROS.** 226 North 9th St. Brooklyn, N. Y.

To the Student

of plant life—the experimenter with the wonderful possibilities of plant developments—our greenhouses are particularly adaptable. They meet every demand insuring perfect plant life. We equip the houses with every necessity, to the satisfaction and delight of the student. Build them so thoroughly that cost of maintenance is reduced to a minimum.

Whether it's a plant laboratory for science's advance or the gratifying of a hobby, we meet the conditions equally well.

Lord & Burnham Co.
GREENHOUSE DESIGNERS
and MANUFACTURERS

1132 BROADWAY, cor. 26th Street, N. Y.
Boston Branch: 819 Tremont Building

A Friend To Greenhouse Men

THE HOLLY CASTLE CIRCULATOR

No long arguments, involved theories or bewildering figures needed to demonstrate its merits.

IT WORKS

It MAKES the Boiler Work

It MAKES the Water Circulate

It is being installed in many large establishments whose owners have seen it work. Write to W. W. Edgar, Waverley, Mass., Siebrecht & Sons, New Rochelle, N. Y., or Julius Roehrs, Rutherford, N. J. The Circulator is WORKING in each of these establishments. If you have a Greenhouse you need the Holly Castle Circulator. It will pay for itself IN SAVING OF COAL.

HOLLY CASTLE COMPANY, 49 Federal Street, Boston.

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish "PECKY CYPRESS"

Everything in PINE and HEMLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.
Cor. Weed St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

FOR SALE Six Large Greenhouses

In a city of 25,000 inhabitants, 35 miles from Boston, a range of six large Greenhouses, propagating house and office and boiler room all of modern construction, heated by a new 90 H. P. steam boiler, seven acres of fine land with residence and stable. Houses stocked with 15,000 carnations and 10,000 bedding plants. 25,000 young carnations ready to plant out. Business wholesale and retail consumes all that can be grown. Address, N. ASH, care of Horticulture.

HORTICULTURE

Vol. III.

APRIL 21, 1906

No. 16



THE MORTON F. PLANT MANSION, GROTON, CONN.
Illustrating piazza arrangement and planting.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

APR 23 1906

Three Sterling Carnation Novelties

Winsor, White Enchantress, and Helen M. Could

There is nothing about any of these varieties that we wish to conceal; therefore, we cordially invite all carnation growers to pay us a visit. Come at any time.

WINSOR—Winner of Lawson Silver Medal.

This is sure to prove a winner. Nothing approaches it in color, which is a clear silvery pink—a shade between Enchantress and Mrs. Thos. W. Lawson—and much more beautiful than either. In fact, it is just the shade that we have all been trying to get. The color will make it sell in any market. The stem is just right. The flowers are considerably larger than Lawson and much better shaped. As a grower it has everything that can be desired. So far we have not seen any large-flowering variety quite so free as Winsor.

WHITE ENCHANTRESS.

A pure white sport of Enchantress, at once the most popular and most profitable carnation grown today, on account of its size and stem and freedom with which it blooms. White Enchantress is identical in every respect but color. Those desiring quality as well as quantity will find it in White Enchantress.

HELEN M. COULD.

This is a beautiful variegated sport of Enchantress. The ground color is a lovely shade of clear pink, the variegation carmine, making an exquisite combination of colors, besides being something distinctly new. At a short distance the variegation does not show at all, the general effect being a beautiful shade of dark pink. Growth, habit, size, and stem are the same as Enchantress.

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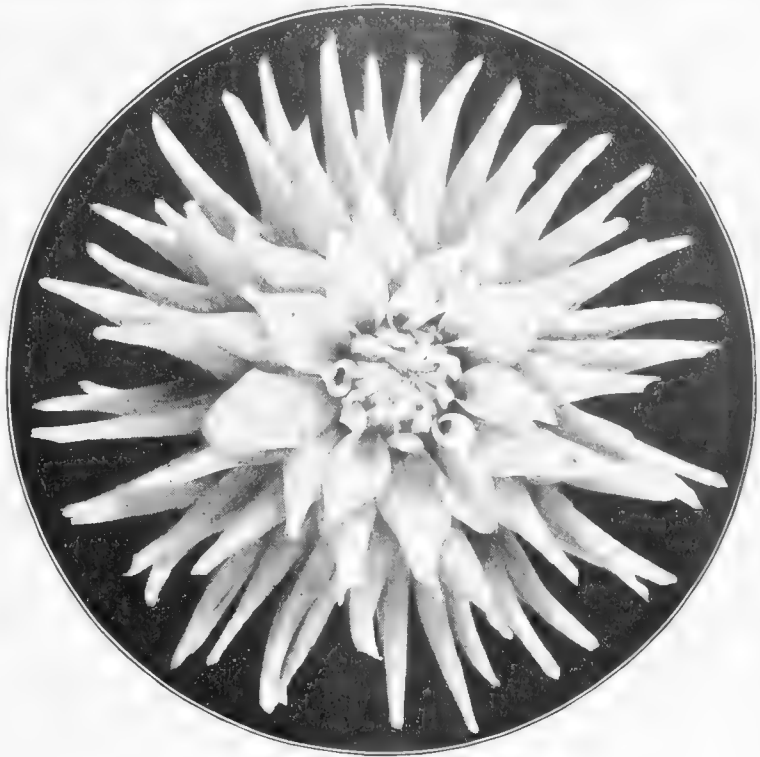
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Each case contains selected plants, no dead or useless stock; hence the buyer sustains no loss whatever in waste. If you want to stock up with **Orchids**, do so at once. Give us your order, and we will fill it to your entire satisfaction. If not, return the plants at our expense. **A LARGE STOCK OF ESTABLISHED ORCHIDS ALWAYS ON HAND.** Also Peat, Moss, Baskets, etc.

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APRIL 21, 1906

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SUPPLEMENT WITH THIS ISSUE

New Cactus Dahlia "The Pilot"

LOCAL REPRESENTATIVES

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P. O. Box 226

Dwarf Fruits



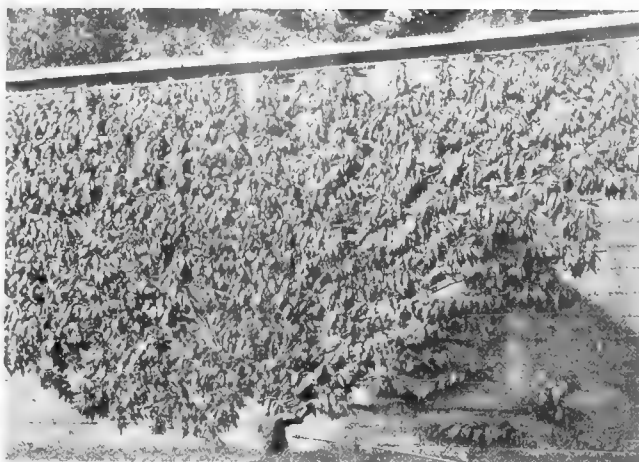
PEARS IN DOUBLE UPRIGHT CORDON.

The aim in growing dwarf fruits is to produce plenty of sound, healthy wood bearing numerous fruit spurs within a prescribed limited space. Because of the conventional way of training this is easily brought about. Such branches are allowed to develop on the stem as are required by the style of training; cordons, palmettes, fans, vignes, lozenges, and the like furnishing ample material for all situations.

As soon as growth is well under way all other buds on the trunk are rubbed off to prevent their interfering by future development. The side branches are permitted to grow the first season unhindered, the only care being to see that all parts develop evenly. If one branch or series appears to have an advantage, by bending the weaker ones so that they make a greater angle with the horizontal they will receive an impetus that will cause them to catch up quickly.

In February or March the previous season's growth is shortened one-fourth to one-third to induce the production of fruit with the renewal of growth. Only five or six fruit spurs should be allowed to a branch, more should be removed. During the season if growth is too pronounced the tips should be pinched about August 1 or when growth begins to slacken, in order to thoroughly ripen the wood before winter.

As the trees are grown on small space under artificial



PEACH AS FAN ESPALIER.

conditions they require constant care, every leaf, flower, bud, fruit, branch and root must be looked after frequently and carefully. The trees are heavy feeders and the roots run shallow so liberal quantities of manure and wood ashes should be supplied them.

A mulch is desirable, adding manure and preserving the water at the same time. Thorough clean cultivation must be given, and a careful conscientious supervision kept up all the time.

After the trees are formed little pruning is necessary. The wood, if excessive, needs to be pinched during the summer and shortened in at the winter clean up. As the fruit spurs become old they should give way to young, vigorous ones developed from dormant buds, or the old spur should be cut back to within an inch of the branch. A new growth will spring from this stub and form a new spur.

The trees may be trained against a house, wall, fence or trellis, or wires may be put up specially for a support. A novel way is to train the trees to a single wire strung along a walk or roadway, employing the single or double cordon.

R. J. Adams.

Magnolias.

The magnolias rank first among the flowering trees and they well deserve the distinction. We appreciate them more perhaps, coming into flower as they do, after the long dreary winter. What is prettier than a large specimen in full bloom, in April? We are often robbed of this sight by late spring frosts in the vicinity of Philadelphia.

There are many native varieties of great merit but those blooming early, with the large-sized blooms come from Japan and China and are more familiar to the lover of flowers. The most common and well known native varieties are glauca or sweet bay, also known as the Jersey magnolia, tripetala or umbrella magnolia, acuminata or cucumber magnolia, macrophylla or large dowered cucumber type, grandiflora or the treasured southern magnolia and Fraseri.

The different varieties classed as Japanese and Chinese are stellata or Halleana, Kobus, conspicua or Yulan, purpurea, Soulangiana and its allied types, Alexandria, Norbertiana, Lennei and speciosa.

The difficulty that many encounter in transplanting magnolia is due to lack of knowledge of the proper time



HORIZONTAL CORDON APPLES.

and location for them. A moist but well-drained, situation is what they like, as they have succulent roots that need a certain amount of moisture. April is the month for moving them and this will be the time when many of the Japanese and Chinese varieties are in flower. Fall planting, which is often attempted, is generally speaking, not successful. The plants do not have time to recover from the transplanting before winter starts in, and the soft sappy roots suffer from freezing and thawing; the tops also winter killing. After transplanting them a good mulch is advisable as it keeps the ground surrounding in a moist condition and encourages root growth more quickly.

Of the native kinds the most popular in the Eastern States is the glauca or sweet bay. Its fragrant flowers are the last to burst into bloom but are in so much demand that in Philadelphia they are sold along the street, where they find a ready market. The leaf of this one is small but beautiful, having a glossy surface giving it an evergreen appearance and glaucous on the underside. It is leathery in texture and farther south is an evergreen.

The variety grandiflora or southern magnolia hardly needs description, as it is well known, even in the northern cities where it is not hardy. Its large glossy leaves are magnificent and the cinnamon color on the under side is a distinct characteristic. The flowers are large and the fragrance they exhale is delightful. It thrives in Washington, D. C., and Louisville, Ky. In the latter city some beautiful specimens can be seen in Cave Hill Cemetery, standing thirty and thirty-five feet high. Joseph Meehan reports it hardy as far north as Claymont, Del., and one old plant grew for years in Philadelphia at Broad and Chestnut Streets.

The umbrella type, tripetala, makes a fine showy specimen for lawn planting and gets its common name from its style of growth. The macrophylla has even larger leaves, some measuring thirty inches in length. The tropical appearance of this species makes it a valuable lawn specimen.

Fraseri can be distinguished from the other native sorts by the heart-shaped base of the leaves. It has large foliage and flowers of a delightful fragrance.

The acuminata makes a fine lawn or avenue tree of conical habit of growth. The red seed pods are also attractive later in the season. The appearance of the green pods, gave this variety its common name of cucumber magnolia.

Of the foreign types the commonest is undoubtedly Soulangeana. This is the species that has the large pink and white flowers in April. Speciosa resembles it so closely that they can hardly be told apart. This can also be said of Alexandria and Norbertiana. Though the former comes earlier and the latter later than the type. Lennei is a fine deep red or crimson variety, the flowers being cup shaped and quite large and full.

The very earliest to flower is the stellata or Halleana. This is a dwarf species and when covered with flowers makes a grand display. Its beautiful star-shaped flowers are smaller than the other foreign types and very sweet. The only purple of merit is purpurea, which can be relied on to give good flowers.

In speaking of all as a class much can be said to their advantage and few criticisms made except regarding their hardness in some localities.

The Real Inwardness of Hybridizing

When I am so often asked if crossing is done by grafting, and when I see an article published in the Scientific American that the way to obtain seedless fruits is to remove the pistil before pollen has taken effect, I feel that I may be excused for writing what the plant breeders already know. A hybrid in this country is understood to mean a cross between two different species; and the combining of the two varieties of a species is called a cross. In either case the work is done through the blossom, and our tools are the germ-cells, both male and female, called gametes by scientists.

There are two classes of hybridizers. The object of one is to ascertain the whys and wherefores of results, the other seeks improvement by various combinations. If a person who is engaged in the poultry business wishes to change his flock to a more popular breed, he can do so by obtaining a male bird of the desired breed to mate with his flock and the offspring will be hybrids; and if those hybrids are bred together, each germ-cell will represent one or the other of its grandparents; and if two germ-cells representing the male bird unite, the offspring will be pure bloods of that breed; but if a germ-cell representing the flock unites with one representing the male grandparent a hybrid is formed, the same as the first hybrid or first generation; and these hybrids if bred together will continue to produce both pure bloods and hybrids, and it is only necessary to select the pure bloods from the hybrids of each generation to increase the pure blood flock. But the pure bloods when bred together will produce pure blood offspring. This, thus roughly described, is what is known as Mendel's law of heredity, and is a boon to breeders.

The old method of purifying or grading up stock was by what is known as Galton's law, which is that the whole heritage of the offspring, the two parents together, contribute one-half, the four grandparents one-quarter, the eight great-grandparents one-eighth, and so on. But under that law the breeders did not know that they were constantly producing hybrids which were taking them back to the original cross, which gave to pedigrees a black eye, by occasionally cropping out. The Mendel's law, as described above, supposes purity of parents, hence purity of germ-cells. But if the parents are of a compound nature the germ-cells will also be compound, and the character of the cells that may unite cannot be foretold. Of over 100,000 grapevines tested, no two alike have been produced. We cross and hybridize and get things never known before. Some are probably reversions back to varieties that perhaps were growing one thousand years ago. It is only when two germ-cells of those remote characters happen to meet that they are developed. We can only study prepotencies and affinities, and determine the effects of various combinations, and it will ever be thus until we can analyze pollen grains and female cells and read the characters they bear.

But the above-mentioned fruits have one advantage over plants that are propagated by seed only. It is in the fact that when a desired variety is obtained it can be propagated indefinitely by buds or grafts and the exact type is fixed and endures and is not subject to any mixture, while with all plants such as corn, wheat, rye, oats, cotton, etc., it is very difficult to keep them pure any length of time.

Murray Chandler

R.B. White

Preservation of Ornamental Trees

The beauty which fine trees lend to their environment, the healthful conditions brought about by the assimilation of noxious gases by the leaf surfaces, the moderation of the atmosphere, the welcome shade, let alone the individual and collective attractions of our trees should be a sufficient incentive for their careful preservation by private owners and municipal guardians. All possible means should be employed by which those attacks may be abated which weaken the vital forces and thus hasten their decay and death.

A tree subjected to modern city or suburban conditions has much with which to contend. In a multitude of instances defective and injurious pruning has left the trunks of our trees covered with dangerous wounds, stumps and protuberances. Electric light wires have been allowed to burn and mutilate the branches, escaping sewer and illuminating gas has poisoned their food supply and these beautiful embellishments of our streets have been suffered to be mutilated by horses and vandals. Lastly, deficient nourishment caused by improper location relative to sidewalks and pavements and the persistent attacks of hundreds of forms of insects and fungi have caused our trees to demonstrate in their own way the law of the "Survival of the Fittest."



Weakened and decayed crotches. A prevailing vault with American elm. Clean and fill with cement and bolt securely before the filling becomes hardened.



A large twin white oak, held together by a linked bolt and guyed to a sunken "dead man" of concrete by a steel cable. Both stems contain large fillings of concrete, on which vines are being trained. Fifteen and a half tons of filling material (concrete) were used in the two cavities.

In the general care of our ornamental trees pruning and the care of wounds is an important factor and should be thoroughly understood by every one in charge of trees. Generally speaking, pruning should begin when the tree is set out and should be continued at intervals throughout its entire lifetime. This implies a small amount of labor stretched out over a number of years and is a practice which will insure a correct form, a small number of wounds of such size as to warrant their healing with rapidity, and is a practice which will obviate to a large extent the necessity of the severe methods of treatment to which many old trees are subjected. It is unnecessary to state that the variety and uses and the many conditions which our trees have to meet gives necessity for a varied form, which in every case does not develop or show off the tree to its best advantage. In the case of street trees and of specimens so situated as to be viewed beneath their branches, less space for crown must be carried high and should be so pruned that a single leader is formed. In other cases where low crowns and thick foliage is desired the practice of topping is at an early stage of the tree's existence to be avoided. In either case the natural beauty of the tree is often lost. In the case of most varieties of ornamental specimens or in groups the natural tendencies and habit of growth should be encouragingly

and very little pruning is necessary aside from keeping the trees free from dead twigs and branches. This rule will hold good in the cases of such trees as naturally grow in a graceful form, as for example; the beeches, elms, rock maples and many of our conifers. On the other hand, various other varieties such as the soft maples need continued attention in order to make them attain a shape conducive to the greatest strength and beauty.

It is essential in the operation of pruning, that a certain definite purpose should be held constantly in mind. Pruning for the mere sake of pruning has no place in the gardener's program. Just what to cut and what to leave, for the good of the tree, requires study, and not until the ideal is formed is it time to use the saw. It is well to begin at the top of the tree, first relieving it of all dead branches and lowering the larger limbs in sections, making the final cut in every case in a line with, and as nearly even with the trunk as practical, this being done in order to make the cambium surrounding the wound in the path of a downward flow of the elaborated sap, since this insures rapid healing. Where practical, it is well to make the cut perfectly even with the trunk, but in isolated cases such a method produces an unnecessarily large wound, when by a slight deviation from this line a much less severe cut may be made and one which will not detract from the appearance of the tree after the healing has taken place. In general, enough live wood should be removed to give to the tree a well-balanced effect, to allow an even diffusion of sunlight and air, and to provide for a free and easy growth of the remaining branches. It is often the case that in many young trees, as for example the horse chestnuts and soft maples, an over abundance of inner growth is formed to the detriment of the tree; this should be thinned out severely, in order that the vigor of growth may be thrown into the leader and main branches.

Where two limbs interfere with each other the least important should be taken out, as natural grafting, although desirable in certain instances as a means for holding together a weakened crotch, is generally harmful from the fact that the graft is imperfect and an impaired circulation of sap is resultant.

On the trunks of many oaks and American elms an unnatural growth known as "feathering" is often produced. This condition results from the springing into growth of latent adventitious buds, and is caused by some irregular condition of the tree. When once feathering is thoroughly established a large leaf surface is produced, which diverts the upward flow of crude sap, elaborates it and uses it for the development of its own system to the detriment of the remainder of the tree. The large size and dark color of the leaves upon these growths, as contrasted with those of the rest of the tree, is oftentimes very apparent. Although the effect rendered by these irregular growths is picturesque, they should be removed, especially in cases where the tree shows a tendency to decline in vigor.

It may be set down as a prime requisite in pruning that all wounds should be covered with some water and air-tight preparation in order to prevent checking and to exclude the spores of fungi, which if given free access will produce certain decay. Many dressings have been tried with various degrees of success. For rough

work in summer perhaps coal tar is preferable, owing to its cheapness, the ease by which it is applied, and its antiseptic properties. However, its color is disagreeable and very seldom matches the color of the surrounding bark, and in many cases it is objectionable to use about houses.

Perhaps the best treatment for the larger wounds is to apply a thorough coating of some antiseptic, as corrosive sublimate, or creosote, followed when dry by a heavy coat of good quality lead paint of an inconspicuous color. The larger wounds should be repainted from time to time until they are completely healed over, and in order to hasten the process of healing the edge of the surrounding cambium should be slit perhaps once a year to prevent its becoming bark bound. Upon the amputation of dead limbs it will be found that in many cases the decay has penetrated into the trunk to such an extent that even the most thorough applications of antiseptics will not destroy the rot-producing fungi; and to simply paint over such wounds does not prevent the destruction of the affected wood. In such instances the decaying material should be carefully chiseled out until sound wood is encountered, the cavity thoroughly treated to an antiseptic and painted. In a majority of cases this is sufficient to prevent further decay, but where the cavities are deep or so shaped that they will hold water, or where they are so large as to materially weaken the branch it is necessary to fill them with a substance which will exclude the water and air which in the later case will furnish a mechanical support.

For this purpose there are a number of brands of elastic cement upon the market, which although they furnish but little mechanical support to the branch, cling tightly to the surrounding wood and are effectual in repelling moisture and decay. A mixture of asphaltum and sand, the cement of the ancients, may be used to advantage in cavities where the constant force of the wind would tend to crack and break a hard setting material. For small holes putty, melted paraffine or grafting wax may be used successfully. In more severe cases where the heart wood of the trunk or larger limbs has become decayed a filling of Portland Cement concrete reinforced, where necessary, by steel bars has proved to be the best method of preserving large trees from breakage or further decay.

It is only on trees of considerable value, reckoned by their size, associations and environment that this kind of work is practical, and therefore when attempted should be done with the greatest care, the same rules being applied as are followed by a dentist in filling a tooth, viz., a thorough cleansing, disinfecting and the procuring of a perfect union between the filling material and the cavity surface.

In removing the decayed heart wood care should be used to disturb the living layer as little as possible. This can be facilitated by the use of long handled gouges and adzes. Owing to the fact that the micelia of the rot-producing fungus penetrates deeply into the apparently sound wood much of the latter should be removed. The cavity should be made to slope inward and away from the opening at the top and sides of the cut in order to better hold the filling in place, and should slope upward and inward at the bottom to provide for drainage in case any moisture should collect in or behind the filling.

The inner surface of the cavity is then treated to a coat of creosote, diluted copper sulphate or corrosive sublimate and painted with two coats of heavy lead paint. To hold the filling firmly in place, large sized nails are driven into the inner surface of the cut at a

distance of two or three inches apart, preferably before the paint has hardened. In cases where large limbs have been filled with concrete it has been found advisable to insert one or more steel bars, extending them along the center of the cavity into the trunk and imbedding them in the concrete filling.

For large cavities the concrete may be made of one part Portland cement, three parts sand and five parts broken stone, with a three-inch facing of equal parts cement and sand, colored with lamp black to match the bark. After the paint is thoroughly dry the concrete may be put in place, using heavy cardboard formers fitted to the opening of the cavity and held in place by small nails. The concrete should be mixed as dry as possible to prevent "slumping" and should be firmly



A "doctored" specimen, showing how advantage was taken of old cuts for the purpose of entering the tree for cleaning and filling.

tamped in place. The formers may be removed within an hour and the still moist surface pointed, the edge of the filling being carried back beyond the line of the cambium so that the latter will grow over and not against the cement, as is commonly the case. If the tree is comparatively young and thrifty it may be expected to cover a wound eight to ten inches across and thus completely enclose the cement body, but on old trees where the opening cut has been large small hope can be entertained of a complete healing, and it is well under these circumstances to color the facing material carefully and to corrugate the surface in the imitation of the surrounding bark. In cases vines may be trained over the wound taking care that they be kept from the branches of the tree as much as possible. Where rotting has taken place in a juncture of two important limbs, or where such a crotch shows signs of weaken-

ing a bolt should be passed through both branches a few feet above the juncture, the ends being fitted with large washers and sunk beneath the cambium layer, using paint freely where the rod enters the wood.

Tree surgery may be safely undertaken during any season, but the amputation of live limbs from most species of trees should be discontinued during a short period in spring while sap is beginning to flow.

The weak and sickly condition of trees may oftentimes be traced to a lack of nourishment or to a poisoned food supply caused by a nearby gas leakage. When effected by gas the trees invariably show the effect first at the top where the plant first attempts to elaborate the polluted supply of crude sap. The presence of borers and the dark color and strong odor of the bark are other signs which tend to point out this prevalent ailment, and for which if of long standing there is slight chance of cure. In early stages of this kind the same treatment may be followed as for a tree which is lacking of proper and sufficient nourishment. Excavate a trench four feet wide and three feet deep around the tree at a distance of six feet from the trunk and fill with rich fresh loam, spade around the tree and manure moderately. Prune back strongly and spray for insects which have taken advantage of the tree's weakened condition.

W. H. West

Lincoln Park, Chicago.

The Rose, The State Flower of the Schools of New York

It may not be generally known that as far back as 1890, the rose was adopted as the State flower of the State of New York, by the votes of the school children of the State.

In 1890 the present Commissioner of Education, Mr. Andrew S. Draper, was State Superintendent and at Arbor Day in that year, a vote was taken in the schools as to the choice for the State flower.

There were no suggestions made as to what flowers should be taken up and of the different varieties of flowers, one hundred and thirty received some votes. There were 318,079 votes cast. The golden-rod received the largest number of votes cast, 81,308 while the rose received 79,666 votes. The result gave no flower the majority of the votes.

The vote between the golden-rod and the rose was so evenly divided, that the State Superintendent suggested that a vote be taken on these two flowers on Arbor Day in 1891. The result of this vote was 294,816 for the rose and 206,402 for the golden-rod. The Rose, the queen of flowers, is therefore considered the State flower of New York.

Before this, in 1899, a vote was taken among the school children of the State for the State tree and the Sugar Maple receiving the largest majority of the votes cast, is considered the State tree of New York.

Since the establishment of Arbor Day in 1888 there has been as many as 246,317 trees planted and an unknown quantity of plants and shrubs.

Arbor Day originated in Nebraska as long ago as 1872 and is now observed, in some measure, by every State in the Union.

Bohannan

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

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WM. J. STEWART, Editor and Manager.

Popularity
of the
cactus dahlia

It is interesting, also surprising to learn, as stated by our English correspondent in last week's issue that, while the newer forms of cactus dahlias are greatly preferred by growers in Europe and the colonies, the old doubles retain undiminished popularity in the United States. It is just possible that the grower through whom this information was obtained may lack sufficient basis for a comprehensive judgment as to tendencies in this country. So far as the New England section of the United States is concerned, we know that the cactus dahlia is rapidly—and deservedly—growing in popularity here. One needs not to look beyond the fall exhibitions, the dealers' catalogues, and the suburban gardens for convincing evidence of this fact. Dahlia culture in this section has, however, suffered a lamentable set-back within the past three years on account of a thrips which stings and ruins the flower buds while they are yet minute. A flowerless dahlia of either sort is no great ornament to the garden and it takes but a season or two of this disappointment to drive the dahlia ambition out of the average garden owner.

The
backyard beautiful,
on paper

The marvellous creations of the "Wizard" shrink into insignificance when compared with the achievements (on paper) of some of our modern "House Beautiful" and "Back Garden Beautiful" apostles. A book that has recently come to our notice records how two energetic young ladies changed a typical city back yard, 20 x 40, to an ideal back garden in double-quick time. By the hire of a man at 15 cents an hour and some seeds and fertilizer, "for less than ten dollars our little lawn was made, the path graded and our border dug and edged." Next, a few trifles of posts and laths set up, and a woodbine which accommodatingly travelled over a wire arching the path and speedily overspread the structure, over a soft green canopy under which to sit. The next day a shade tree to shut off the view from neighboring windows was next felt, so "on the following day a new tree was set directly in front of the bower. It was a round, stubby one, so placed as to hide us from the view of our neighbors when we

chose to sit upon the low seat within the sacred inclosure." Keep at it, young ladies. You're a wonder, each and every one of you.

Intelligent
help needed in
nursery and greenhouse

Mr. Manning very truthfully says in the paper which we publish in this issue that "we need more teachers who are competent to teach, more disciples of out-door art who look beyond the pretty flower-bed and the neat yard to the permanent improvement of their towns on broader lines." The people who buy trees and plants need intelligent advice and, as a rule, will be grateful for it. A more widespread knowledge of the simple facts regarding common plants, their wants, their care, and especially their proper place, is needed among those who supply the public with these goods. The average florist's employe is notably deficient in this most necessary qualification; in fact, a certain exploitation of the fact of this ignorance is often apparent, as though a practical knowledge of cultural matters was something beneath the exalted station of a florists' clerk. That these conditions will long prevail, we cannot believe. The young man who brings to his employer, together with his ability to buy and sell, a thorough knowledge of the material he handles and its uses and is able to impart that knowledge in sound advice to the customers of a house will not be long in outclassing his stupid fellows. The flower buyers and the tree buyers in every hamlet in the land are eager for just such a man in their midst.

The day
of reckoning

Easter is over and the man who has thought of little else for many weeks can now commune with himself for a moment before facing the new problems that await his attention. The over-timid grower will perhaps recognize where he made a mistake in not pursuing a more progressive policy and has the keen mortification of seeing his hustling rival elated over a record-breaking business which might as well have been his. On the other hand, the reckless buyer ruefully sees his anticipated Easter profits practically buried beyond reclaim, in the left over material. While no one can assume omniscience and the shrewdest will occasionally make a disastrous miscalculation yet it cannot be denied that the losses of the extreme optimist and the extreme pessimist might be materially reduced by the adoption of a more careful system of itemized records and especially by a close perusal of the experiences of others as given in the better class of trade reports. Unfortunately many so-called trade reports are not worth the paper they are printed upon and no one can blame the seeker for information that may help him to better success, if he turns, disgusted, from the vapid stuff of the "did-25-per-cent.-more-than-last-year" style which so many trade paper correspondents seem to imagine their brother florists are a-hungering for. The more exact his own register and the more thorough his knowledge of what is going on elsewhere the better will the grower know what to say to the import-order man when he makes his post-Easter call.

"MECHANICAL WATERING" APPROVED.

Editor HORTICULTURE:—

Dear Sir:—The discussion appearing in your columns on "Mechanical Watering" is interesting, and I compliment HORTICULTURE upon its sagacity in allowing free discussion upon the subject to appear in print.

You also show good judgment in printing the letters of Messrs. Finlayson and Ingram, under the heading "Old Fogies," and I will bet a large apple that neither of these gentlemen have ever seen Mr. Wittbold's watering device in operation.

Your correspondents apparently base their criticisms upon what they have seen in England and European countries. I spent some years in England, and go there now almost every summer and, having seen Mr. Wittbold's device in operation at his firm's establishment in Chicago, I want to tell these gentlemen that they remind me of a person not having seen anything more modern than an old-fashioned dumb waiter, passing an opinion upon a modern elevator, as used in our "sky-scrapers."

Many old-fashioned English gardeners in this year of grace 1906, would not allow a hose to be used in their greenhouses, while here the prejudice has been overcome and hoses are now universally used. Even our friend McGorum uses one.

Mr. Louis Wittbold is one of the five sons of George Wittbold, the veteran florist of Chicago, who has during his life-time built up one of the largest businesses in the west, and who has handed down to his sons some of his energy and initiative. It will not be necessary for your "old fogie" correspondents to go so far away from home as Chicago to see the device in operation. It will probably be installed in the near future in their midst, then they will know more about it than they do at present.

I consider that Mr. Wittbold's device has much merit. As he says, "it is not a panacea for all business ills," neither is a lawn sprinkler or the ordinary hose, yet they are "watering devices" and have been made adaptable, and the new device will ultimately find its own peculiar sphere of usefulness in like manner.

Mr. Wittbold should send information to our above mentioned friends regarding his device and look up future numbers of HORTICULTURE for a record of their conversion.

J. McHUTCHISON.

MECHANICAL WATERING SATISFACTORY.

Editor HORTICULTURE:—

Dear Sir:—I notice in your columns some controversy on watering machines and mechanical watering, which subject seems to be up for discussion by the trade. While I have no desire to mix in the debate, I wish to say that I think few readers have the correct idea, hence are not sufficiently informed or interested to intelligently discuss the situation. After several months study and experimenting with watering machines, I am positive that same are a grand success, and that the trade will soon see it the same way.

We have our entire establishment

equipped with an improved system, and we are more than pleased with it. Our houses are 200x27 feet; we water with two runs of pipe in each house; these pipes are fed from the end and decrease in size from 1-1/4 in. down as they approach the farther end. The nozzles are placed 16 ft. apart, screwed in 1-2 in. tees. They throw a flat spray similar to a gas jet, making a perfect even shower the full length of the house and not more than 4 inches wide where it strikes the bench. The spray can be directed to either bench or any angle by turning the pipe. A person can form little idea of the perfect working of the system without seeing it in operation or a photo of it. I do our watering now in one hour (all seven houses); formerly took two men all morning, and I can do it better at that. Did you ever think of it before, that you do not get the same amount of water on all parts of the bench when watering with the hose? I might add that we are not growing anything this season but vegetables, but would use the same system whatever the crop, and make it work perfectly. While I would not advise a grower to let the boys experiment with one on a house of Farleyense or Lorraines I would advise all greenhouse men to try one length in some house and see for themselves.

Of course there will be obstacles to overcome with some crops, but they will be overcome, and the watering machine will soon be installed in most up-to-date places. W. B. DAVIS.

CLEANING DODDER-INFESTED ALFALFA SEED.

F. C. Stewart and H. J. Eustace, N. Y. Agricultural Experiment Station.

Recent experiments show that almost any alfalfa seed on the market may be made practically free from dodder and safe to sow by careful hand sifting through a wire sieve having twenty meshes to the inch. A cheap serviceable sieve for the purpose may be made by constructing a light, wooden frame about 12 inches square by three inches deep and tacking over the bottom of it twenty-mesh wire screen made of No. 32 (English gauge) round wire.

One-fourth to one-half pound of seed should be put in the sieve at a time and vigorously shaken during one-half minute. A man should be able to clean from five to ten bushels of seed per day.

Dealers in alfalfa seed should either sift all the seed they sell or else provide their customers with the means of doing the work themselves. Dodder is so troublesome a weed that no one can afford to take the risk of sowing unsifted seed.

The Station will furnish free samples of dodder seed upon request.

"DID MOST SATISFACTORY BUSINESS."

Editor HORTICULTURE:—

Concerning our advertising for this year we are glad to state that just as soon as we have looked over our stock of bulbs you shall certainly hear from us, as we did most satisfactory business through you last season.

Very truly,

POAT BROS.

PERSONAL.

James Hutchinson, formerly gardener for Oakes Ames at North Easton, Mass., has taken a position with Dr. Shafer at Pittsburg, Pa.

E. W. Pierce, of A. H. Hews & Co., Cambridge, Mass., who has been ill for two weeks, is now all right again and at the post of duty.

Clarence M. Stark, the wealthy nursery man of Missouri, whose disappearance at San Antonio, Texas, April 1, caused a sensation, and who was traced to a boarding house, is now in a private sanitarium, an institution where he was being treated prior to his disappearance. He was examined in the county court as to his mental condition, and it was found upon the testimony of the county physician and other medical experts that he was unsound. His wife, who is with him, states that she expects to remain with him until the summer months, when she may take him to Wisconsin, where he was under treatment before coming to San Antonio.

NEW MANAGEMENT.

Philip Breitmeyer was, on April 10, appointed park commissioner for the city of Detroit by Mayor Codd. William Dilger was promptly appointed superintendent by Mr. Breitmeyer. This is a significant move in park management, and should Commissioner Breitmeyer, the successful florist and business man, and Mr. Dilger, the practical gardener, make a notable success in their new field, as we have every reason to believe they will, a point of inestimable value to the florist interests of the country will have been gained. We congratulate Detroit.

OBITUARY.

James Coke, private gardener, died at his home in Maynard, Mass., on April 7 of heart failure, from which he has been suffering for a number of years. Mr. Coke learned his trade in England, his father having been also a gardener. He was in charge of the Kennedy estate in Cambridge, Mass., for a number of years and also the Leavitt place, Cambridge, for six years thereafter. He was a man of fine character and excellent gardening ability. His age was 55 years.

Count Oswald de Kerchove died in Ghent, Belgium, on March 20, aged 82 years. Count Kerchove had been since 1878 president of the great Ghent Society for Agriculture and Botany, which gives an exhibition once every five years, and it was when engrossed in the work of preparation for the exhibition of 1908—the 100th anniversary of the society's birth—that he was called away. He was a well-known writer on horticultural subjects and author of two books on orchids and palms. Every plant grower in America is familiar with the beautiful pink and white azalea which bears his name.

NEWS OF THE CLUBS AND SOCIETIES.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The April meeting of this club was of the usual interesting character, and was well attended, considering the busy times for all hands, there being upwards of eighty members present, and the number of new applicants for membership being twenty-seven. The principal business of the evening was to listen to a paper by J. A. Pettigrew, on Street and Wayside Planting. This was identical with the address delivered by Mr. Pettigrew in March of last year before the North Shore Horticultural Society, and which we published in full in our issues of April 8 and April 15, 1905. We have on hand a few copies of those numbers, which we can spare for those of our readers who would like to peruse Mr. Pettigrew's admirable lecture. After the paper, an hour or two was spent in discussing the various topics touched upon. On the exhibition table were the following:

Ixias, from A. E. Shedd, Bussey Institution; Crinum Moorei, from E. P. Morse, Dedham; Anemone coronaria The Bride; and Anemone fulgens, from W. N. Craig; mignonette, from Alex. Downs; carnation Maxwellton (Enchantress x Mrs. T. W. Lawson), from S. J. Trepass, Glen Cove, N. Y.; antirrhinum, from an unknown exhibitor, all of which were awarded honorable mention by the judges. It was announced by President Wheeler that the banquet and sociable to be held on April 25 would be a record-breaking event in the club's history and that at the May meeting a talk would be given by E. O. Orpet, on the subject, "The Making of a Gardener."

HARTFORD FLORISTS' CLUB.

The regular meeting of this club took place on Friday evening, 13th inst., President Huss in the chair. Owing to the rush of work incidental to Easter, the attendance was not large. Francis Canning, instructor of horticulture at the State Agricultural College, Amherst, Mass., was present and gave an interesting address on the work conducted there. Mr. Canning explained clearly the scope of the curriculum in the various branches as taught at Amherst, and compared the methods of imparting instruction with those which generally obtain in Europe.

Considering that, at the various State Agricultural Colleges, a general education is given, with special training along horticultural or agricultural lines, and that for many operations the student is paid a regular wage, the youth of the United States have opportunities and advantages not usually obtained in Europe. Mr. Canning closed his remarks with the truism that, notwithstanding the facilities offered to acquire a college training in

the several branches of horticulture, ultimate success still depends on the man himself. The lecturer received a hearty vote of thanks for his address.

A discussion took place as to the advisability of amalgamating our Florists' Club with the Connecticut Horticultural Society, and this important step will be considered at a future meeting. ALEX. CUMMING.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Ant. C. Zvolanek, Bound Brook, N. J., submits for registration the following blooming sweet peas:

1. Mrs. J. F. Hannay, pink, self color, seedling from Mrs. William Sim x Mrs. E. Wild.

2. Marion Staniford, standard maroon, wings blue, seedling from Christmas Captain x No. 93.

3. Miss Jossie Riedley, lavender pink, seedling from Florence Denzer x Mrs. Alex. Wallace.

The sweet pea registered by A. C. Zvolanek as Mrs. T. J. Dolansky should be Mrs. F. J. Dolansky.

WM. J. STEWART, Secretary.

FLOWER SHOW AT PASADENA, CAL.

Pasadena's first annual flower show, held on April 5, 6 and 7, was a most gratifying success, the exhibits counting up into the hundreds and the attendance of the public excellent. The mayor opened the show with a short address. Sixty-one classes had been provided for, but many extra and special entries came in late, which made a number of additional classes necessary. Among the exhibitors winning first prizes were the following:

Wright Flower Shop, American Beauty (silver cup); J. W. Wolfskill, 25 carnations (silver cup), bouquet; Woods Floral Co., Watsonia Ardernei (silver cup) stocks, scabiosa; Park Nursery, palms, rex begonias, flowering begonias, Asparagus plumosus, collection of economic tropical plants; Hotel Green, decorative plants, Asparagus Sprengeri, ornamental plants; F. E. Wilcox, J. Augustine, gardener, lilacs, cinerarias, collection of flowering plants; E. C. Sturtevant, water lilies (silver cup); Mrs. Fowler, J. Blake, gardener, 12 carnations (silver cup) calendulas; Dr. Schiffman, orchids, adiantums; C. H. Hovey, geraniums; L. Newman, P. J. Jannock, gardener, Bride roses, verbenas; Smith Bros., poppies, bulbous cut flowers; F. T. Holder, bougainvillea, antirrhinums; Mrs. Singer, foliage plants; Mrs. Watson, acacia; H. Bournder, cacti; J. Ainton, Shasta daisies; M. Bookdorf, violets; L. Hurlbut, pansies; L. Lambert, sweet peas; Mrs. Clark, iris; Mrs. Fitzgerald, marguerites.

CLUBS AND SOCIETY NOTES.

The State Horticultural Society met at Salt Lake City, Utah, on April 5 and listened to interesting addresses from the president, Thomas Judd, and others.

C. L. Simons, who for the past four years has been president of the Amateur Horticultural Society of Springfield, Mass., resigned his office at the meeting on April 6.

The State Florists' Association of Indiana held its annual exhibit at the State House, Indianapolis, on April 9. Glendale among the carnations and Richmond in roses attracted marked attention.

The Home Gardening Association of Cleveland, O., has opened an additional exchange garden on East 115th street for its work this season. Through the assistance of florists and others 20,000 plants and shrubs were distributed to schools and small home gardens last year.

A Florists' Club has been organized in Salt Lake City, Utah, with the following officers: President, Charles Alt; vice-president, L. M. Law; secretary, Charles Butchart; treasurer, W. H. King; sergeant-at-arms, Fred Laker. It starts with a membership of over 20.

NEWS NOTES.

The greenhouses of A. P. Calder of Stoughton, Mass., were partially destroyed by fire on April 15, which caught in the engine room. Loss will be from \$500 to \$800.

Point Defiance Park, Tacoma, Wash., has received a large consignment of rare South American plants and seeds through the courtesy of Mrs. W. B. Gibbons, a former resident of the city but a native of Valparaiso.

William Woods, gardener at Interlaken, the estate of Cortland Field Bishop at Lenox, Mass., disappeared on the night of April 5. He had notified the superintendent that he would complete his duties on the 15th, and it is thought by his wife that he has gone to Canada, his former home, in search of a position.

BUSINESS CHANGES.

W. J. Schoonman has established a florist and nursery business on the Lewis Gleason place, Danielson, Conn.

Edward Sceery of Paterson, N. J., has opened a branch store in Passaic, corner of Bloomfield and Main avenues.

The Ansonia Floral Company, which has extensive greenhouses on North Main St., in Ansonia, Ct., has opened a branch store at 70 Elizabeth street, where all orders for cut flowers, plants and funeral floral offerings will be promptly attended to. The company has built up a large business in a neighboring city and now opens a store here to meet its trade, which has constantly been increasing in Derby.

OUTDOOR ART

ADDRESS DELIVERED AT CLEVELAND, OHIO,

October 6, 1905.

Outdoor art is fine art. It is the art of making and saving living pictures that painters will paint. That person who has a genuine appreciation of nature, whether it be for the little things that grow, or the great landscapes of sky and earth and water has the instincts of an artist. He may not have the technical skill to depict upon paper the aspect and pose of a fern, flower or tree, or to place upon canvas the fleeting expressions of nature that most appeal to him, but he can recognize the beauties and deficiencies of the common things and common scenes about him, he can use his influence to preserve the beauty and supply the deficiencies, and the measure of his success in this work will carry his name as far down the vista of time as will most of the work that artists do. More people and more generations of people may gain a mental, moral and physical uplift from the living picture of a really beautiful landscape with its never ending change with the procession of the seasons than from any landscape upon canvas. In no respect would I belittle the work of the true artist. He who has the power to place upon canvas the brief periods of supreme beauty that every student of nature would like to preserve, or who can depict the beautiful compositions of mass, form, line, light and shade that nature can, but seldom does produce, without a blemish, speaks so commanding a note that the average man is compelled to stop and look and listen even though he does not understand. The student of a picture-gallery crowd can testify that while it will swarm and chatter about the street Arab story or home-parting scene, it will linger quietly and thoughtfully before the work of a master. You, who have studied the crowds in a public park, will realize that while they will also gather for a brief period about the showy flower beds with expressions of wonder and admiration, they will spend the day where there are beautiful landscapes.

I believe the average taste of the public is correct, and that it does appreciate a really beautiful thing. In evidence of this, I only need to point to the tremendously rapid growth of the sentiment and practice that is represented by the membership of this Association. We need more teachers who are competent to teach, and such teachers are rapidly developing, more disciples of outdoor art who will look beyond the pretty flower bed and the neat yard to the permanent improvement of their towns on broader lines; and who will set about to acquire the fine trees, the beautiful passages of landscape that will fit into the broader scheme. You will say that public reservations are expensive and that you have not the means or influence to secure them. I say that you are wrong



in this assumption, for if you really have the instinct of the artist, and a real love for the beauty in nature because of its beauty, and not because the individuals or publications to whom you look for your ideas assert it, you will be able to sway others to see as you do, at least enough to give of the abundance of their land or their money.

Let me give you a few leaves from my book of experience to show how often a suggestion may fall in fallow ground. A Park Commission having an appropriation sufficient only to purchase the park land of a proposed extensive park system was told that they must acquire their park-ways by gift from property owners. This was unanimously declared impossible, but an opportunity to divide into house lots a six hundred acre tract on the line of the proposed park-way made it possible to provide liberally for this park-way, and to secure the sixty acres needed therein as a gift to the city. Another unconvinced property owner, after having seen the benefits and beauty of park-ways in another city was convinced, and now offers to give with equal liberality. Three other large property owners are doing the same, and it now appears certain that nearly the whole of the park-way land will be secured thus, or from public holdings established for other purposes.

In a small city of the northwest, a large body of primitive pine upon the shores of a beautiful stream much used for pleasure boating was to be cut for the last bite to a big saw-mill that was about to be closed for all time, owing to the exhaustion of its forest supply. The suggestion made to a member of the lumber company that the preservation of lines of trees along the bluff, and groups of trees at prominent points would preserve the essence of all the unique beauty of a stream that would only be common-place after the pines were cut. He was doubtful, as it represented a large asset. At another visit the same ground was gone over, and the same suggestions made to another member of the firm, who seemed coldly non-committal. At the next visit, the mills were dismantled, and a million feet of lumber had been saved to preserve the beauty of the stream. Not only this, but also a large number of splendid old trees along the shore of the great water-power pond, as well as on the bluffs in the heart of the town, all of which might have gone to the mills had the owners so willed.

In a small town in eastern Massachusetts was a high hill-top, from which the finest view in the town was to be secured. The supposed owner, the village grocer, was approached

AND CRAFT

BEFORE AMERICAN CIVIC ASSOCIATION.

By Warren H. Manning.

with the suggestion that it be given to an Association who would hold it open to the public for all time. He assented promptly, but found his land did not take in the summit. He believed it belonged to a hard-working, but well-to-do farmer. This farmer was approached, first with the suggestion that he save a fine old hemlock on the hillside. With a good deal of emphasis he stated that he had been saving that tree for nearly fifty years. He, too, offered to give land at the summit, but it was found that his holdings did not reach it. The store-keeper purchased sixty acres for the purpose of carrying out his intention. Then the project for a woodland reservation one hundred feet wide and nearly three miles long was suggested, with the expectation that the owners would give the land. Already nearly one-third of the land required had been promised, and this in a so-called non-progressive farming community. In this same community it was the practice of the lumbermen to cut to the roadside. It was found only necessary in most cases to call the attention of the lumbermen to the desirability of preserving all the road side growth to secure its preservation, and one lumberman, having no personal interest in the town, saved a large and fine oak of considerable commercial value upon the suggestion that it would be a fine thing for him to do, and because he cared for the beauty of the tree as well. The suggestion to individuals owning particularly fine trees that they deed these trees to the Village Improvement Association, has met with a favorable response, and papers are being prepared for the preservation of several such trees. It has been my experience that there are very many land and tree owners who care so much for such beauty that they are willing to make a considerable sacrifice to preserve it, if the agency is provided, and if they are approached in the proper spirit. Think how such memorials will grow in beauty even if neglected, for Nature is forever building her creations as fast as they decay, and ruthlessly tearing down the creations that man has made of material gained by despoiling Nature.

How many unendowed or endowed memorial buildings, or other structures, in towns or on college campus, erected fifty or more years ago, are standing to-day, and how many are likely to stand fifty years more, when you consider the short period of a building's usefulness, and the tendency of towns and colleges to live so close to their income as to only maintain useful things, especially if the cost of maintenance is a considerable item? How many of the donors of fifty years ago would be proud of their gifts were they to see them associated with the better work of to-day?

There are many beautiful trees and

landscapes that have been growing and will continue to grow for centuries, that are certain of destruction sooner or later if in private hands, for there is no entailment of estates in this country that will keep them for centuries in a family. The only assurance for the preservation of such objects lies in their being placed permanently in the hands of some legally constituted body of officials or citizens' associations with the power to hold and administer the land and keep it open to the public for all time, with moneys secured from taxation, from gift, or from the property itself. There are dangers to be guarded against, however.

Until the time comes when such intrinsically valuable natural resources upon a public reservation as minerals, forests and waters, will be managed honestly for the benefit of the public, with a proper regard for aesthetic, as well as economic returns, such resources will be a serious menace to the public interests, and will compel a constant fight to prevent private parties from destroying that which is of the greatest value to the public. For example, it would appear that in spite of all the protest that has been made against such desecration, Niagara Falls is doomed. On one side, the power rights upon a reservation acquired for the people, have been sold for a mess of pottage. We have heard how public-spirited the Power Companies are in providing a very large fund for the maintenance of the public park, but when the Power Companies have taken all the water from Niagara Falls how impossible it will be with all the money that can be secured from the power generated by this water to construct artificially a natural object as fine or as impressive as the Falls now are.

Another danger comes from the opportunities that are offered for political patronage in our parks or park systems that have been and are expensive to acquire, to construct and to maintain. Where there is much patronage this control is pretty sure to pass from the group of public-spirited and self-sacrificing men who initiated the park movement and established the parks, to the politician. Not only is this true of the city, but it often is true of the small towns where similar political conditions prevail in a small way.

Again the great taxable value of such large reservations in the heart of a city, as Boston Common, New York Central Park, have led to repeated efforts to secure some portions of the park for commercial use for public institutes or public buildings. The Subway is already in the edge of both Boston's Common and its Public Gardens and a group of museums is spreading over a considerable portion of Central Park, and propositions to run streets through these reservations crops out periodically. It should be borne in mind, however, that neither of these reservations were originally designed to be a part of a modern park system.

It is such considerations that lead me to believe that it is not always wise to include in our city park system very large bodies of land having a high taxable value, especially where they form a barrier to direct lines of travel, as does Central Park of New York. Furthermore, the fact that the

electric car lines and the automobile make the range of a daily outing so much greater than was possible a few years ago with the horse, that our public pleasure road system must be much more extensive than they are now to serve the needs of that part of the public who pay the largest share of the taxes, while the requirements of the people in moderate circumstances who most need the parks, should be supplied by the isolated small local playgrounds, or playgrounds upon broadenings in adjacent park-ways to which these people may walk daily. They cannot go daily to the large parks, for they are at such a distance that they must pay car fares to reach them. Undoubtedly the present nuclei of town, city, county, state and national parks will expand into a national system, in which the steam roads, already great national park-ways, and the electric, automobile and carriage roads will have their logical place. It will be a system based first upon practical consideration, the reservations being governed by the topography, and so located as to include the natural lines of travel, as the railroads are now located along stream valleys, which are also the natural lines of drainage.

You are asking by this time what this has to do with my Outdoor Art proposition, which you may from its designation regard as an æsthetic consideration only. If you do, I want to protest against your disposition to set a barrier between beauty and utility, for the more you think and observe the more you will be convinced that they go hand in hand and that intrinsic values are depending more and more upon beauty, a gospel that should be preached and preached.

Bear in mind that our modern park systems are very generally extended to include the valleys and shores of streams, the shores of ponds, the high bluffs along stream valleys, and the summits of hills, land of the smallest commercial value on account of occasional submergence or its inaccessibility, the land that the owners are most likely to give for a public reservation because of its low value, the land that has been neglected and thereby allowed to acquire a beautiful growth of trees and shrubs.

I would again place emphasis upon the fact that those who would enduringly improve their town must do more than to encourage the planting of flower beds and cleaning of yards. These are important details and they all help to educate public sentiment in the right way. This, however, is not the kind of work that is likely to enlist the earnest support of the most far-seeing business and professional men,—the men who prefer to do big things. Such men when they once realize the importance and value of a comprehensive plan of the town that will include in a public reservation system the land of little value, but of great beauty, will put in work that will count.

This Association, and the majority of its departments are enlisted in educating the people up to the point where they will do just such work as I have outlined. I conceive it to be the special work of the Outdoor Art Department to help the people to gain a fuller appreciation of the real beauty of the common scenes and objects about them that can be acquired and

developed at small cost to show them how they can again at small cost make many hideous objects and scenes attractive. I would place special emphasis upon the small cost, because I believe if we are to have a more beautiful America, we must enlist the multitude who have small means, as well as the comparatively few with large resources.

CALIFORNIA NOTES.

The last session of the legislature \$150,000 was appropriated to buy an experimental farm for the University of California. During the last several months the committee of soil experts on selection have carefully examined the twenty-seven farms offered to the state for this purpose and this week the selection was made of Yolo county farm near the town of Davisville.

There are brisk doings also in the Fresno raisin field. The prices are edging up, and some packers are offering 3 1/2 cents a pound, although the standard quotations are 3 1/4 cents. At a meeting of raisin growers in Dinuba district last week a pool of one thousand tons of fruit was sold under three-years' contract at 3 1/4 cents to packers. This is the first contract for a large amount made by packers for ahead business for some time and indicates the activity that characterizes the market and the prospects for still higher figures.

At the fortnightly meeting on the 7th instant of the Pacific Coast Horticultural Society, the president, J. W. Bagge, read an original paper of entertaining merit, his subject being the gladiolus. A measure was introduced at this meeting and given its first of three necessary readings before action, the purport being to have only one meeting of the association a month. The arguments advanced by the proponents of the measure was that the members are in the habit of turning out well at the first meeting in the month and not nearly as well at the second.

In the San Joaquin Valley the ravages of the blight are expected to reduce the yield one-third. About Armona many orchards have been partially put out of business as far as this season is concerned. In the Visalia district the damage is considerable, and the packing and canning interests are seriously alarmed for supplies in that quarter. The Reedley district in this county is said to be afflicted to a large extent, and the blight has made its appearance in Oleander and Easton districts.

Several horticulturists are in the city this week from Fresno, the great dried-fruit district of California. The news they bring is that "dried fruit is soaring;" that the price of peaches has gone to 8 cents a pound, which is said to be the record up to this time in the State, a price that assures the grower of a return of from \$350 to \$400 an acre from his land. There were some sales last year at 8 cents, but the prevailing rate was 7 cents. Only packers who sold short and were caught without stock to make good their speculation were buyers at the higher figure. This time 8 cents is the standard, and growers are not hurrying over each other at that to dispose of their crop. There is a big growing demand, a prospect of a



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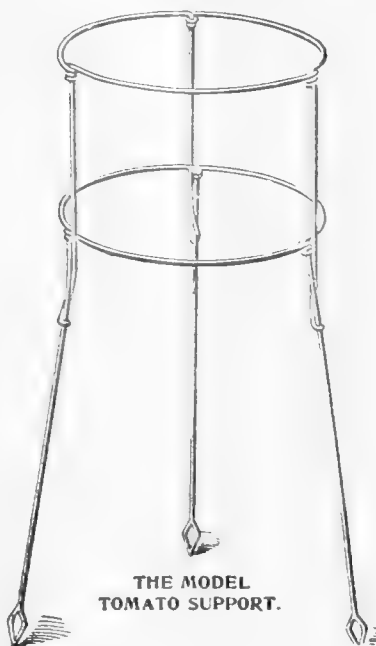
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short crop. The canners, not to be behind in the race, are out with \$35 and \$40 offers for green stock and are buying from all comers. There is but little hold-over stock. An estimate made last week gives only fifty carloads in all for the entire San Joaquin Valley, not enough to cut much of a figure in the market, hence the eastern consumers will have to pay a little extra this year, especially since there is a reputed prospect of a big shortage in the eastern crop, which must be taken into calculation.

NEW YORK AGRICULTURAL EXPERIMENT STATION.

BULLETIN 273.

The San Jose scale is still with us; and only increasing, careful work will prevent its destructive spread in many fruit sections of the State. A timely word on the subject is given in Bulletin No. 273 of the Station at Geneva. The experiments conducted by the Station in 1904 and 1905 indicate that the lime and sulphur wash, boiled by fire or steam, is the most reliable of all remedies so far tested; and that this mixture is safe to use, in most cases, as a fall, or as a winter and spring application.

The kerosene-limoid combinations have not proven effective in Station tests; and in many cases have caused injury.

The miscible, or soluble, oils, as represented by Scalecide, have given some good and some unfavorable results. They require further testing before they can be recommended.

If interested the bulletin may be obtained free by requesting a copy from the Station.

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KILLS SAN JOSE SCALE

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Glenside, Pa., March 31, 1906.

HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.

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The San Jose Scale is very bad in our section and I am glad to hear of a good remedy. I will try it, especially as it is so easy to use. I will be glad to hear of any other remedy.

Your early reply will be greatly appreciated.
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How this Railroad Station Was Improved.



In the spring of 1905 the grounds of the Erie station at Tallmadge, Ohio, were in a very bad condition—a blot on the landscape and a disgrace to the railroad. When the depot was built 12 years before, a tidy park lying in the angle of the highway and tracks was graded and grassed and three evergreens and a catalpa set out. I think the agent paid for the trees. He took great interest in the appearance of the grounds, and while he stayed they were kept in nice order, with a miscellaneous flower bed of rectangular form about 7x30 feet. He moved away, and soon after an interlocking system connecting the double tracks east with the single one west, was installed; business and number of trains increased, and succeeding agents had enough to do without mowing lawns. In the spring of 1904 the writer, who was supervisor of highways at the time, was appointed a committee by the village improvement society to labor with the railroad management with a view of having the grounds kept tidy, and if possible adorned with flowers. I was met with blunt refusal, the reason adduced being that the road was being managed with the most rigid economy. After much cogitation I settled upon a plan of action. It was to have the society furnish a good lawn mower, provided the section boss would furnish a man to use it, and I would furnish the cannas for a large and showy bed. At the April annual meeting of the Improvement Society the mower was unanimously voted for, and I put the proposition in writing to the subdivision supervisor of the Erie tracks. He O. K'd. it, and the section boss cleaned up the lawn and spaded the flower bed, which had the remains of last year's weeds, some self-sown petunias and some scattering perennial poppies.

On the 27th of May, I planted an ordered bed of 35 dwarf petunias, 12 5's. At other end of the track I

placed a circular bed 40 inches in diameter of twenty dwarf petunias of the finest strain I have ever seen. These were in bud and showed considerable bloom on Memorial Day, three days later. The cannas were from five-inch pots and began to bloom in two weeks. They had also the advantage of the bronze foliage from the start. Concentric marks two inches apart were made in the fine soil around the beds and lawn grass seed sown in them, which by mid-July covered the ground and was mowed with the lawn. My proposition reserved my right to move and take the plants after Oct. 20. I sold four canna roots; three were stolen and the remaining 28 made nearly 200 divisions which I have at this writing nicely started in 3 and 4-inch pots. It will be seen that I used stock plants for ornamenting the station park, and thus kept my cake while the flower-loving public helped eat. The idea of thus using stock plants came to me several years ago when looking at Dreer's acres of cannas and other flowers, and again at a western establishment. Why not farm out cannas and phlox and dahlias where they will be appreciated and well cared for and take them back in the fall, or do as I did—borrow railroad parks for garden ground? I might add that in early November I planted the large bed to 216 early tulips in three colors a diagonal band of five rows across the middle separating the others. The round beds were planted to 40 hyacinths each, a high grade being used. This was wholly out-of-pocket business "for the good of the order," but as my neighbors and I go by nearly every day, it will be about as good as having them on the lawn at home.

L. B. PIERCE.

We extend our sincere sympathy to our—and everybody's friend, Philip J. Foley of Chicago, on the death of his five-year-old child. May sorrow so deep never again come to him is our heartfelt wish.

Harlan P. Kelsey has moved his office from 6 Beacon street, Boston, to Higginson Square, Salem, Mass.

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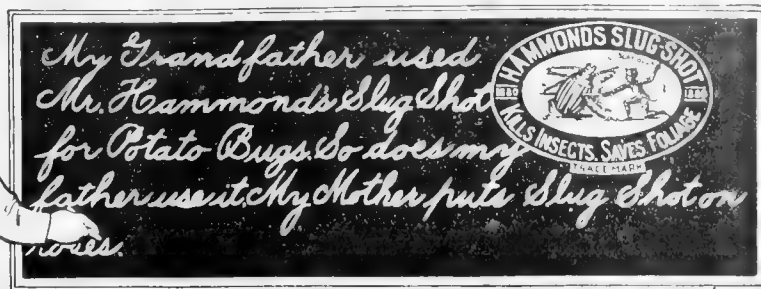
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EASTER MARKET REPORTS

BOSTON The Easter trade in this city was a phenomenal success for the plant growers, the largest on record for the retailers, a perfect whirlwind of business for the wholesalers doing a cut flower shipping trade, a fair success for the cut flower grower and a disappointment to those cut flower growers who had hoarded their material and expected to find a demand for it in Boston on Saturday morning. Broadly speaking, local trade was poor as regards flowers in general, with the exception of lilies, which were in supply insufficient for the call. Lily of the valley, violets and pink sweet peas sold unexpectedly well, but, as in the case of all cut flowers, generally, it was the out-of-town demand from practically every New England community that did the business and marked the great gap between the aggregate results to the shipper and those to the grower for local distribution.

In the city it was decidedly a plant Easter. Lily plants sold out clean everywhere. Azaleas, hydrangeas and the general run of Easter flowering plants made a fine record, the only laggard of note being the Crimson Rambler rose which, judged by the standard of other cities, was held at rather high figures. The retailers gave most of their attention to the plant interests all through the week, and not until Saturday did they have much to say about flowers. The weather on Saturday especially was superb, and such crowds of people as thronged the streets and fairly overwhelmed the florists' stores have rarely been equalled on any occasion in this city.

Roses moved with exasperating slowness all through the week; there was no material advance in values, but the aggregate output was, of course, larger than under ordinary conditions. Carnations sold very well all along until Saturday morning when a slump of huge dimensions was inaugurated and the panic scenes of former days reenacted; the sufferers were the same perverse class that do it every year and can be depended upon to do it next year regardless of their repeated unfortunate experiences. Lawson and Enchantress were the best sellers among the carnations; whites were the worst. An immense stock of daffodils and tulips was held over; wanted by nobody. Notwithstanding the fierce demand for lilies, callas had a very slow sale.

CHICAGO Chicago was very unfortunate as to Easter weather. Conditions were all right up to Friday, which was showery and threatening; Saturday was cold with high wind which interfered greatly with delivery of lilies and other plants, and Sunday was continued cold and stormy. It is the belief among all departments of the trade that had the weather been favorable the occasion would have broken all records. In the wholesale cut flower market roses and carnations started to shorten up in quantity early in the week, shipping trade being quite heavy and the usual dilatory tactics of the grower in holding back to look having been adopted, with the result that on Saturday there were large quanti-

ties of carnations of all grades to be had at buyers' valuation. At no time, however, was there any surplus of choice roses, this being the only item on the list that could be designated as in short supply. Long-stemmed Beauties and other high-grade roses were cleaned up promptly on receipt and brought excellent prices. The demand for the newer varieties of roses was a prominent feature. In carnations the best call was for Lady Bountiful and the large red varieties. Good tulips were scarce, but there were too many daffodils. Violets sold well, but the quality was generally inferior. Smilax was very scarce and this brought about an unusual demand for asparagus strings. Callas were abundant. Lilies sold well at quoted rates. Generally speaking, the wholesale houses cleaned up satisfactorily, except on carnations and the poorer grades of bulb flowers. The retail stores all report the plant business to have been equal to or in excess of that of last year. Almost without exception they declare the cut flower business to have been less. Only those who bought carefully were able to clean up on cut flowers. All admit that the cut flower trade was below anticipations, although it is also admitted that the inclemency of the weather may have had some effect in curtailing sales. Violets are credited with more nearly approaching normal demand than did most other staples. All reports show a heavy preponderance of plant sales as compared with cut flowers.

CINCINNATI We were favored with good weather for two weeks preceding Easter, and all stock showed a vast improvement in quantity and quality. Cut flowers were plentiful and the demand was greater than ever before in the history of the florist business. There was just enough stock to supply everyone with what was wanted and at a fair price. The commission men could have handled a great many more roses and carnations for shipping purposes, and were obliged to turn down many orders from the out-of-town florists. Bulbous stock was in fine condition and met with great favor with the public, as the bulk of the demand was for what they termed Easter flowers. There was no corresponding increase in the demand for plants; flowering plants were not plentiful and were not pushed to any extent, Harrisii lilies excepted. Saturday was a fine spring day and the streets were thronged with shoppers, and never before were seen so many people carrying flowers. Sunday morning florists' boys and wagons were as plentiful as street cars. The Sixth street flower market was thronged with people till near the midnight hour, and comparatively few of the visitors could resist the temptation to buy. It was a great Easter. Everybody is satisfied and all join in pronouncing it the best they ever had.

CLEVELAND In comparison with last year this Easter's trade comes up to the expectations of the retailers as well as the growers, who of course have disposed of their stock first. Potted plants, all kinds, sold well. It

rained most all Saturday and Sunday, but this proved no damper to the spirit of buying. Everybody is cleaned up and all are very well satisfied. Some of the stores showed some pretty conceits in Easter novelties, such as large eggs concealing dainty bunches of violets, lily of the valley and pansies. Every Easter the Sheriff street market florists have a show and prizes are given. G. M. Wanman got 1st prize, Mrs. Gamble 2d, and Casper Aul 3d.

COLUMBUS It is always difficult to tell in the absence of exact figures how one holiday compares with another; but the most conservative opinion of the trade here is that the total volume of Easter business was at least 20 per cent more than a year ago. The number of plants disposed of was enormous, and included everything in seasonable stock. Of lilies there were not enough to go round. Saturday noon saw the end of them. What azaleas there were found ready sale. Of potted blooming hyacinths, tulips, narcissus, and other bulb stock there was a better quantity; but all went. One of the quickest sellers was *Spiraea Gladstone*. Specimen *Crimson*, and *Philadelphia Ramblers*, *Baby Ramblers*, etc., sold out clean.

The story in cut flowers is soon told; every employe who could take money was putting out the goods; everything went fast and furious and there was no time for boxes or delivery in the late afternoon and evening.

The business done for **LOUISVILLE** Easter probably surpassed any we have ever experienced. Stock in general was in satisfactory supply, and the quality averaged unusually good on carnations. Violets are short in supply and quality, the demand being very good. Lilies of the valley sell fairly well, and are in great supply. Bulbous stock is somewhat scarce.

While enthusiasm is **NEW YORK** not wholly absent from the story of the Easter experience of the wholesale and retail trade of this city, yet it is scattering in quantity and mild in quality. Probably it would seem from all the sources of information available that the holiday has lost permanently its prominence as a cut-flower festival and clinched its reputation as the great plant event of the year. The plant growers did their part in splendid form. The greater part of their product was sold weeks in advance and their only solicitude was as to its delivery, which proved to be easy on account of favoring weather. The variety provided did not differ noticeably from that of last year, no new thing being seen in any great quantity and no old favorite, except possibly the genista, showing especial weakness. Hydrangeas seemed finer than usual; Rambler roses were more uniformly bright in color; ericas were less abundant; azaleas were splendidly flowered and less stiff in outline; lilacs were the best ever seen here; rhododendrons, metrosideros, acacias, bougainvilleas and a few other things appeared to be in reduced quantity. Pans of bulbous stock were superior. As to the lily, the great Easter spec-

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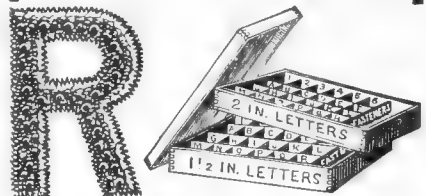
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Am. Beauty and Edgely Fan. & Sp.	40.00	to 50.00	30.00	to 35.00	30.00	to 40.00	20.00	to 35.00
" Extra.....	25.00	to 35.00	20.00	to 25.00	20.00	to 25.00	10.00	to 15.00
" No. 1.....	8.00	to 12.00	10.00	to 15.00	10.00	to 12.50	6.00	to 8.00
" Lower grades.....	4.00	to 8.00	4.00	to 8.00	4.00	to 8.00	2.00	to 5.00
Bride & Maid—Fan. & Sp.....	8.00	to 12.00	10.00	to 12.50	10.00	to 12.00	6.00	to 8.00
" Extra.....	8.00	to 10.00	6.00	to 8.00	8.00	to 10.00	4.00	to 6.00
" No. 1 and Lower grades.....	4.00	to 6.00	4.00	to 5.00	2.00	to 6.00	1.00	to 5.00
Liberty, Fancy.....	8.00	to 12.00	10.00	to 12.50	15.00	to 20.00	10.00	to 12.00
" Ordinary.....	4.00	to 6.00	10.00	to 12.50	8.00	to 10.00	2.00	to 6.00
Richmond, Fancy.....	8.00	to 12.00	10.00	to 12.50	15.00	to 20.00	10.00	to 15.00
" Ordinary.....	4.00	to 6.00	6.00	to 8.00	10.00	to 12.50	6.00	to 8.00
Golden Gate, Fancy.....	8.00	to 10.00	10.00	to 12.50	8.00	to 10.00	6.00	to 8.00
" Ordinary.....	4.00	to 6.00	4.00	to 8.00	4.00	to 6.00	1.00	to 4.00
Chatenay, Fancy.....	8.00	to 10.00	10.00	to 12.50	12.00	to 15.00	6.00	to 8.00
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CARNATIONS								
Fancy.....	5.00	to 6.00	4.00	to 5.00	4.00	to 5.00	2.00	to 3.00
Ordinary.....	3.00	to 5.00	1.50	to 2.00	2.00	to 3.00	1.00	to 1.50
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Tulips.....	2.00	to 4.00	3.00	to 4.00	3.00	to 4.00	1.00	to 2.00
Sweet Peas.....	1.00	to 1.50	1.00	to 1.50	.75	to 1.50	.50	to .75
Mignonette.....	1.00	to 1.50	4.00	to 5.00	2.00	to 3.00	1.00	to 2.00
Adiantum Cuneatum.....	.50	to 1.00	1.00	to 1.00	.75	to 1.00	.75	to 1.50
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Lilacs per 100 bunches.....	100.00	to 150.00	75.00	to 100.00	50.00	to 50.00	50.00	to 50.00

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ality, reports and opinions vary greatly. It certainly displayed no increased popularity and evidences of waning influence were not lacking. This may have been the result, in part, of the quality which, with many growers, was very far below standard. The sale of plant collections in baskets, hampers, etc., was, as usual in New York, quite large, but it is doubtful if this particular line increased much over previous years, the increase in sales being more generally apparent in individual plants. These were as a rule sold with some kind of a pot covering and more or less ribbon finishing, either satin or wood, but the tissue paper swathing so common here for several seasons has been abandoned by most retailers of the better class. The number of plants left over in any store was very small.

The cut flower trade did not at any time develop extraordinary activity. The supply, taken as a whole, was light and it was fortunate it was so, as it was due to this fact, and no other, that it escaped a disaster, for Sunday morning opened with a dismal, teeming rain and the expected demand was thus completely cut off. A larger proportion of the left-over stock than usual was in the hands of the retailers and some of the wholesalers had managed to unload nearly everything of value before the storm broke. These remarks cover about everything except violets. Here, indeed, was a Waterloo. Given the brightest, balmy Easter morning that ever dawned and it would have been beyond the possibilities to find outlet for the avalanche of violets that poured into this market Saturday afternoon. The American Express alone brought 1000 cases, each containing from 2500 to 6000 violets; this accounts for the "up-Hudson" supply only. Much of this could have been placed through the week previous at fair figures had the growers not hoarded it; as it was, the great majority laid in the crates untouched until Monday, when, if lucky, it went to the Greeks for something to cover express charges. Other stock that lagged badly comprised red carnations, bulbous stock, mignonette, and the better grades of Bride and Bridesmaid roses. Lily of the valley, on the other hand, made a splendid record. There was no marked advance in the wholesale value of any cut flower; a few small lots of especial merit touched figures that might be called fancy and really first-class cut lilies held to top quotations, but outside of these exceptions ordinary prices prevailed.

There was a large and **NEWPORT** more profitable business done in plants and cut flowers at Easter this year than on any previous occasion on record.

Prices were in advance of last year on almost every item. A greater variety of plants than usual tempted purchasers, with the result that more business than was anticipated was done in other plants than lilies, the usual exclusive requisite of Easter plant buyers. When it came to Saturday afternoon nearly every dealer in town realized that there would not be lilies enough to supply the demand. Azaleas, hydrangeas, rhododendrons, genistas and Baby Rambler roses sold readily at good prices. In cut flowers, lilies, of course, were more in demand than anything else. Roses and carnations, nevertheless sold in large numbers at prices varying to suit the occasion and conditions as they appeared to those who sold. Pansies sold very well and geraniums in bloom disappeared quickly. Pansies were used effectively in neat little baskets, the plants bringing enough to at least pay for their growing. There were no novelties offered, but even without novelties it was a satisfactory Easter for everybody.

Growers, wholesalers and **PHILADELPHIA** retailers all agree as to Easter that they are sore but satisfied. There

was big business for everybody—the weather was splendid and there were no surpluses to speak of, a combination for which all are duly thankful. Here in Philadelphia it was a poor home that did not have a few flowers in its windows. And as for the churches never were the decorations so lavish or attractive, especially in the Catholic and Episcopalian denominations. Even the revival meetings of Torrey and Alexander were brightened up by a sprinkling of lilies and azaleas. The aggregate of material disposed of in the stores and on the streets and from the greenhouses direct was never greater and good prices were realized, especially towards the windup. Lilies were a scarce article and thousands more could have been disposed of. Lots of 20 and 30 thousand were sold early to the department stores at 8 cents, which would have easily brought 12 and 15 cents later in the week through the regular channels. On Saturday many out-of-town orders for 500 and 1000 pots remained unfilled. April weddings will have to go without lilies this year or pay well to the fortunate grower who has a late crop. Twelfth street was a Covent Garden this year with the Battles' establishments on one side and Acker's on the other. Graham had an annex at 108 South 13th street. Pennock Bros. declared that their business had beaten all records this year. Faulkner, Crawford, Craig, Kift, Habermehl and others all reported inability to take care of all the business that came in. Among the wholesalers

we found a similar cheerful condition. Baker, Reid, McKissick, Niessen and Pennock all reported satisfactory business. Niessen cleaned out well on all lines except cut tulips. Pennock with his immense force was taxed to the utmost night and day, but got through with but little friction. The growers who sold their plants on the street sold out clean by midnight Saturday.

PHILADELPHIA NOTES.

Jno. Westcott has been in poor health since his return from Florida. A visit to the Waretown Sanitarium seems to have helped him a little, but he is still far from his old self. On the 17th he went for a short stay at Atlantic City.

Paul Berkowitz, of H. Bayersdorfer & Co., is back at his desk in Philadelphia after an extensive trip among the bright lights in the trade. He will hold the helm while his partner, H. Bayersdorfer, is in Europe.

It is rumored that a big change is imminent in the personnel of two of the big seed houses in this city. While we believe we have full information on the subject, we prefer to report full developments later.

Abraham Pennock, the veteran Philadelphia florist, announces his intention of staying for the summer in Florida.

Jno. Hedland, gardener to Mrs. G. W. Elkins, exhibited a pair of fine hydrangeas at the monthly meeting of the Pennsylvania Horticultural Society, capturing a Bodine first, with same on the 17th inst. Wm. Robertson took first for hot house cucumbers, Thos. Holland first for cinerarias in the Michell section, while Joseph Hurley took first in the Dreer column for a collection of perennials.



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Telephone 2921 Madison Square.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Apr. 14 1906		First Half of Week beginning Apr. 16 1906			Last Half of Week ending Apr. 14 1906		First half of Week beginning Apr. 16 1906	
Roses					Carnations, Fancy	2.00	to 5.00	2.00	to 3.00
Am. Beauty and Edgeley fan and sp.	20.00	to 50.00	20.00	to 25.00	Carnations, Ordinary	1.00	to 2.00	1.50	to 2.00
extra	10.00	to 20.00	10.00	to 12.00	Cattleyas	50.00	to 75.00	50.00	to 60.00
No. 1	5.00	to 8.00	6.00	to 10.00	Lilies	10.00	to 12.00	4.00	to 8.00
Lower grades	1.00	to 3.00	1.00	to 4.00	Callas	4.00	to 8.00	4.00	to 8.00
Bride & 'Maid, fan and sp.	8.00	to 15.00	5.00	to 8.00	Lily of the Valley	1.00	to 3.00	1.00	to 3.00
extra	3.00	to 6.00	3.00	to 5.00	Violets	.10	to .40	0	to .40
No. 1 and lower grades	1.00	to 2.00	1.50	to 3.00	Tulips	1.00	to 3.00	1.50	to 2.00
Liberty, fancy	8.00	to 25.00	10.00	to 15.00	Sweet Peas	.....	to ..	.25	to .50
ordinary	.50	to 8.00	3.00	to 6.00	Niglonette	.50	to 3.00	.50	to 1.00
Richmond, fancy	8.00	to 20.00	10.00	to 15.00	Adiantum	.50	to 1.00	.....	to 1.50
ordinary	2.00	to 6.00	3.00	to 5.00	Cuneatum	.....	to 1.50	.....	to 2.00
Golden Gate, fancy	4.00	to 6.00	4.00	to 6.00	Smilax	4.00	to 20.00	15.00	to 20.00
ordinary	.50	to 3.00	2.00	to 5.00	Asparagus Plumosus	15.00	to 35.00	25.00	to 35.00
Chatenay, fancy	4.00	to 6.00	4.00	to 6.00	" & Sprenger, bunches	8.00	to 25.00	15.00	to 25.00
ordinary	.50	to 3.00	2.00	to 5.00	Lilacs per 100 bunches	25.00	to 75.00	25.00	to 50.00

JOHN YOUNG
Wholesale **FLORIST**
51 West 28th St., New York
Telephone, 4463-4464 Madison Sq.
Best Beauties, Brides and Bridesmaids.
Lily of the Valley, Orchids and
Lilies. Renowned Cottage
Garden Carnations.

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Wholesale Florist
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New York
Tel. 1462 Madison Sq.
1463

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Manager

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AN UNEQUALED OUTLET FOR CONIGNED FLOWERS

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and returns made promptly.

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ESTABLISHED 1872

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WHOLESALE AND COMMISSION FLORIST

115 W. 30th St., New York

Tel. No. 956 Madison Square

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Carnations and Violets. Quick returns and
highest prices.

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Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties

and are dealers in

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First class, early grafted, Brides
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lish stock. Prices \$10.00 and
\$12.00 per hundred. See sam-
ple at Stall No. 52 Park Street
Market.

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Montrose, Mass.

Headquarters in Western New York

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ROSES, CARNATIONS

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

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Give us a trial.

We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

NEW CROP SOUTHERN WILD SMILAX \$3.50 and \$7.00 per Case.

Headquarters for all FLORISTS' SUPPLIES. Wire
Designs, Cut Wire, Letters, Immortelles, Cycas Leaves,
Wheat Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main, 2618.

WHOLESALE FLOWER MARKETS.

PER 100.
TO DEALERS ONLY.

	CINCINNATI			DETROIT			BUFFALO			PITTSBURG		
	April 16			April 10			April 16			April 17		
ROSES												
Am. Beauty and Edgely. fan and sp.	40.00	to	50.00	40.00	to	50.00	35.00	to	40.00	35.00	to	40.00
" extra.....	.....	to	35.00	30.00	to	40.00	20.00	to	30.00	25.00	to	30.00
" No. 1.....	25.00	to	30.00	25.00	to	30.00	12.00	to	15.00	10.00	to	15.00
" Lower grades.....	10.00	to	15.00	10.00	to	15.00	5.00	to	12.00	4.00	to	6.00
Bride and Maid, fan, and sp.....	.....	to	8.00	10.00	to	12.00	.....	to	12.00	.....	to	12.00
" extra.....	5.00	to	6.00	7.00	to	10.00	10.00	to	12.00	8.00	to	10.00
" No. 1 and Lower grades.....	3.00	to	4.00	4.00	to	7.00	4.00	to	6.00	4.00	to	6.00
Liberty, fancy.....	.....	to	8.00	10.00	to	12.00	12.00	to	15.00	.....	to	15.00
" Ordinary.....	4.00	to	6.00	5.00	to	8.00	5.00	to	8.00	.....	to	8.00
Richmond, Fancy.....	.....	to	10.00	10.00	to	12.00	12.00	to	15.00	15.00	to	20.00
" Ordinary.....	.....	to	4.00	4.00	to	7.00	6.00	to	10.00	6.00	to	12.00
Golden Gate, Fancy.....	.....	to	8.00	6.00	to	10.00	8.00	to	10.00	6.00	to	8.00
" Ordinary.....	4.00	to	6.00	4.00	to	6.00	4.00	to	6.00	.....	to	6.00
Chatenay, Fancy.....	.....	to	10.00	10.00	to	12.00	8.00	to	10.00	8.00	to	10.00
" Ordinary.....	.....	to	4.00	4.00	to	8.00	4.00	to	6.00	4.00	to	6.00
CARNATIONS												
Fancy.....	.....	to	4.00	.....	to	4.00	4.00	to	5.00	3.00	to	4.00
Ordinary.....	2.00	to	3.00	2.00	to	4.00	2.00	to	4.00	1.00	to	2.00
MISCELLANEOUS												
Cattleyas.....	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Lilies.....	.....	to	12.50	10.00	to	15.00	10.00	to	15.00	10.00	to	12.00
Callas.....	8.00	to	10.00	.....	to	12.50	8.00	to	12.00	10.00	to	12.00
Lily of the Valley.....	3.00	to	4.00	3.00	to	4.00	.....	to	.....	2.00	to	3.00
Violets.....	1.50	to	2.50	.....	to	75	.60	to	.75	.50	to	1.00
Tulips.....	3.00	to	4.00	3.00	to	5.00	3.00	to	4.00	2.00	to	4.00
Sweet Peas.....	.50	to	.75	.75	to	1.00	.60	to	1.50	.50	to	1.00
Mignonette.....	.....	to	.....	.....	to	.....	2.00	to	3.00	2.00	to	3.00
Adiantum Cuneatum.....	.....	to	1.00	.....	to	.....	.50	to	1.00	.....	to	.....
" Crownam.....	.....	to	.....	.....	to	.....	1.25	to	1.50	1.25	to	1.50
Smilax.....	.....	to	15.00	12.00	to	15.00	15.00	to	20.00	15.00	to	20.00
Asparagus Plumosus, strings.....	.....	to	50.00	30.00	to	50.00	40.00	to	50.00	30.00	to	50.00
" " & Sprenger, bunches.....	to	35.00	20.00	to	30.00	25.00	to	50.00	40.00	to	50.00
Lilacs per 100 bunches.....	to	to	to	40.00	to	50.00

Geo. A. Sutherland Co.

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Florists' Supplies and Letters

34 HAWLEY STREET - - BOSTON

E. A. BEAVEN

Wholesale Dealer in

SOUTHERN WILD SMILAX

and Florists' Hardy Decorative Supplies.
New crop now ready in limited quantities.

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Fancy and Dagger Ferns, Galax and Leucothoe,
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—Boxwood. All Decorating Evergreens.

THE KERVAN CO.

Tel. 1519 Madison Sq.

20 West 27th St

NEW YORK.

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ASPARAGUS.

Oak Grove Nurseries, Los Angeles, Cal.
Asparagus Pl. N. Seed.
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Asparagus Sprenger, 2 1-2 in., \$2.25 per 100. Otto Bourdy, Lowell, Mass.

ASTERS.

Asters, nice strong plants. Queen of Market, Semples, Carlson, separate colors, 35c. per 100 by mail; \$3.00 per 1000 by express. S. W. Pike, St. Charles, Ill.

BEGONIAS.

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Lily Bulbs.
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Schlegel & Fottler Co.,
26 S. Market St., Boston, Mass.
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1000.
Amayrillis formosissima, 4-5 1-2 in. clr. \$22.00
Cyclobothra flava, 2-2 1-2 in. clr. 7.00
Milla biflora, 2-2 1-2 in. clr. 7.00
Tigridias in mixture, 2-3 in. clr. 9.00
All good, profitable blooming bulbs. Price includes parcel postpaid.

J. A. McDowell, Ap. 157, City of Mexico.

CACTI.

Old Man's Head, 4 to 5 in., \$20.00 per 100.
Cacti, medium size, 10 assorted varieties, \$10.00 per 100; 15 assorted varieties, \$15.00 per 100.

Price includes prepaid mail. Headquarters for cacti, orchids, bulbs, etc.
J. A. McDowell, Ap. 157 City of Mexico.

CANNAS.

Canna Alemana, dry or started roots, \$2.00 per 100. J. H. Krone, Jr., Fort Smith, Ark.

CARNATIONS.

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CHRYSANTHEMUM PLANTS.

Opak, Mildred Ware, Mrs. Weeks, Amorita, Convention Hall, Dr. Eugenhart, F. S. Vallis, Mrs. F. Thirkell, Etienne Bonnefond, Alliance, Beauty of Sussex, Mrs. Birce, La Fusion, Merstham Yellow, Fred Lemon, \$2.50 per 100; \$20.00 per 1000.

G. S. Kalb, Florence Teal, Glory of Pacific, Polly Rose, Willowbrook, Golden Trophy, Robt. Hailday, D. W. Childs, John Shrimpton, Maj. Bonnafan, Col. Appleton, Nivius, Bride, Pink Ivory, White Ivory, Vivand Morel, Cullingfordil, Ermanilda, Areline, Nagoya, Maud Dean, Mutual Friend, W. H. Lincoln, Black Hawk, Jerome Jones, F. G. Jones, Golden Wedding, Timothy Eaton, Mme. F. Perrin, Wm. Duckham, \$1.50 per 100; \$12.50 per 1000. Address W. F. Kasting, 383-387 Ellicott St., Buffalo, N. Y.

Wm. Swayne, Kennett Square, Pa.
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The E. G. Hill Co., Richmond, Ind.

CLEMATIS.

Clematis paniculata, 2-yr., transp., \$6 per 100; 1 yr., strong, \$4 per 100. E. Y. Teas, Centerville, Ind.

COLEUS.

H. N. Eaton, So. Sudbury, Mass., Rooted Cuttings.
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COREOPSIS.

Coreopsis lanceolata, 2 1-2 in. pots, \$2.50 per 100. E. Y. Teas, Centerville, Ind.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.
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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN PLANTS.

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F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Nephrolepis Piersoni Elegantisima.
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Ferns for jardineres, good varieties, \$3.00 per 100, cash. J. H. Fieser, 415 Summit Avenue, West Hoboken, N. J.

FERTILIZERS.

Wm. Elliott & Sons, 201 Fulton St., N. Y.
Sterilized Sheep Manure.
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FEVERFEW.

Feverfew, \$1.00 per 100, \$8.00 per 1000.
Prepaid. S. W. Pike, St. Charles, Ill.

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Gude Bros. Co., 1214 F St.,
Washington, D. C.
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FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
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Edwards Folding Box Co., Philadelphia.
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GERANIUMS.

Geraniums, large top cuttings, well
rooted: Peter Henderson, \$2.50 per 100;
Trego, \$2.00 per 100, \$18.00 per 1000; S. A.
Nutt, Mrs. E. G. Hill, Beaute Potievine,
Jean Vland, Mme. Buckner (best white),
\$1.50 per 100, \$14.00 per 1000. The W. T.
Buckley Co., Springfield, Ill.

H. M. Totman, Randolph, Vt.
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GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin,
N. Y.
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Gladioli. Colors, mixtures and named.
All sizes. Also bulblets. E. E. Stewart,
Rives Junction, Mich.

Groff's Hybrid Gladioli: A No. 1 stock,
true to name all shades including the cov-
eted blue varieties; 1-2 to 2 in., \$10.00 per
1000, \$1.50 per 100; 1 to 1 1/2 in., \$8.00 per
1000, \$1.25 per 100; 3/4 in. to 1 in., \$6.00
per 1000, 75c. per 100; 1/2 to 3/4 in., \$5.00
per 1000, 60c. per 100. A. B. Powell, Cam-
den, N. Y.

GLASS.

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., Boston.
For page see List of Advertisers.

Glass, French and American "White
Rose" brand. Stenzel Glass Co., 2 Hudson
St., New York.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square,
New York.
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Hitchings & Co., 1170 Broadway,
New York.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

J. C. Moninger Co., 117 East Blackhawk St.,
Chicago, Ill.
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Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.

Weathered Co., 46 and 48 Marion St., New
York.
For page see List of Advertisers.

Foley Mfg. Co., 471 W. 22nd St., Chicago.
For page see List of Advertisers.

GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for
Florists.

Mineralized Rubber Co., New York.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston, Mass.
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The Kervan Co.,
20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dilger, Mgr.
Fancy Ferns.
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HARDY PERENNIALS.

Henry A. Dreer, Philadelphia.
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HEATING APPARATUS.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square,
New York.
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Hitchings & Co., 1170 Broadway,
New York.
For page see List of Advertisers.

John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St.,
Boston, Mass.
For page see List of Advertisers.

Kroeschell Bros., 35 Erie St., Chicago.
For page see List of Advertisers.

HOTHOUSE GRAPE VINES.

Rose Hill Nurseries, New Rochelle, N. Y.
For page see List of Advertisers.

HYDRANGEAS.

Hydrangea Otaska, 3-in., \$4.00 per 100;
4-in., \$8.00 per 100; 5-in., \$2.00 per doz.,
\$12.00 per 100; 6-in., \$3.00 per doz. Large
plants from 10-in. pots, fine stock lawn
decoration at \$1.00 each; Dracaena Indi-
visa, 2 in., \$2.00 per 100; 3-in., \$4.00 per
100; Jemene, strong bulbs, \$3.00 per 100.
Chrysanthemums, clean stock, Pally Rose
(plant early for best results); Ivory, Alice
Byron, best white to date; Halliday and 20
other stand. Sorts, R. C., \$1.00 per 100;
potted plants, \$2.00 per 100. E. Fryer,
Johnstown, Pa.

IMPATIENS HOLSTII.

C. Winterich, Defiance, O.
For page see List of Advertisers.

IMPORTING HOUSES.

R. M. Ward & Co., New York.
Plants and Bulbs.
For page see List of Advertisers.

INSECTICIDES.

Perfection Chemical Co., Flushing, N. Y.
Carman's Antipest.
For page see List of Advertisers.

The H. A. Stoothoff Co., 119 West St.,
New York.

Fumigating Kind Tobacco Powder.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Nikoteen,
For page see List of Advertisers.

Hammond's Paint & S. S. Works, Flshkhl,
N. Y.
Horicum.

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JAPANESE PLANTS.

Yokohama Nurseries, 31 Barclay St.,
New York.
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MOONVINES.

Moonvines, 2 1/2 in., strong plants, \$3.00
per 100. John Heidenreich, Indianapolis,
Ind.

Godfrey Aschmann, 1012 Ontario St., Phila.
For page see List of Advertisers.

MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
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NURSERY STOCK.

Cottage Gardens, Queens, N. Y.
For page see List of Advertisers.

Forest Nursery & Seed Co., McMinnville,
Tenn.

Forest Tree and Shrub Seeds.
For page see List of Advertisers.

Hart Pioneer Nursery, Fort Scott, Kansas.
For page see List of Advertisers.

J. H. Troy, New Rochelle, N. Y.
For page see List of Advertisers.

NYMPHEAS.

Odorata Roses and Marliacea Chromateda,
strong roots, \$3.00 per doz. W. I. Bodfish,
West Barnstable, Mass.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

PANSIES.

Imperial Seed & Plant Co., Grange, Balti-
more, Md.
For page see List of Advertisers.

PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
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PLANTS, BEDDING.

J. C. Schmidt Co., Bristol, Pa.
Spiraea Japonica.
For page see List of Advertisers.
H. N. Eaton, S. Sudbury, Mass.
Coleus, Verschaffeltii, Golden Bedder.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.
Julius Roehrs, Rutherford, N. J.
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R. & J. Farquhar & Co., Boston.
Palms, Kentia Belmoreana.
C. Elsele, 11th and Roy Sts., Philadelphia.
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PLANT STAKES.

H. F. Mitchell Co., Philadelphia.
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PLANTS HARDY.

M. G. Walsh, Woods Hole, Mass.
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PRIMULA OBCONICA.

O. V. Zaugen, Hoboken, N. J.
For page see List of Advertisers.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp.
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

RETAIL FLORISTS.

Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.
Alex. McConnell, New York.
For page see List of Advertisers.
Thomas Young, Jr., New York.
For page see List of Advertisers.
Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.
J. Breitmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.
Young & Nugent, New York.
For page see List of Advertisers.
George H. Cooke, Washington, D. C.
For page see List of Advertisers.
Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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Gude Bros. Co., 1214 F St.,
Washington, D. C.
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Eyes, 11 N. Pearl St., Albany, N. Y.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pye, Upper Nyack, N. Y.
For page see List of Advertisers.
Rose Hill Nurseries, New Rochelle, N. Y.
Roses, Killarney.
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Montrose Greenhouses, Montrose, Mass.
Grafted Roses.
For page see List of Advertisers.
The E. G. Hill Co., Richmond, Ind.
Creeping Roses, 2 years, \$6.00 per 100.
The Elizabeth Nursery Co., Elizabeth, N. J.
Richmond roses, 21-2 in. pots, strong, vig-
orous stock, \$8.00 per 100; \$70.00 per 1000;
4000 plants Joy & Son Co., Nashville,
Tenn.

SEEDS.

T. J. Grey & Co., 32 So. Market St.
Boston, Mass.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
For page see List of Advertisers.
W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.
J. M. Thorburn & Co.,
36 Cortlandt St., New York.
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H. F. Mitchell Co., 1018 Market St.,
Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.
H. A. Dreer, Philadelphia.
Flower Seeds.
For page see List of Advertisers.
Wm. Elliott & Sons, 201 Fulton St., N. Y.
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SEEDS—Continued.

Schlegel & Fottler Co., 26 S. Market St.,
Boston, Mass.
For page see List of Advertisers.
Peter S. Reid, Oratava, Teneriffe.
Bermuda Onion Seed.
For page see List of Advertisers.
Seeds, 100,000 fresh greenhouse grown
Asparagus plumosus seed, \$2.50 per 1,000
on large lots. Henry Young, Ada, O.
Conrad Appel, Darmstadt, Germany, Es
tab. 1789. High Grade Grass, Clover, and Tree Seeds

SEED CASES—MICE PROOF.

Heller & Co., Montclair, N. J.
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SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
St., Boston, Mass.
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E. A. Beaven, Evergreen, Ala.
For page see List of Advertisers.

SPHAGNUM; CEDAR POLES.

H. R. Akers, Chatsworth, N. J.

TOMATO AND PLANT SUPPORTS.

Igou Bros., 226 North 9th St.,
Brooklyn, N. Y.
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VENTILATING APPARATUS.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square,
New York.
For page see List of Advertisers.
Hitchings & Co., 1170 Broadway,
New York.
For page see List of Advertisers.
John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
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Weathered Co., 46 and 48 Marlon St.,
New York.
For page see List of Advertisers.
Foley Mfg. Co., 471 W. 22nd St., Chicago.
For page see List of Advertisers.

The Chicago Lifter.

J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

VERBENAS.

The new verberna, Ellen Willmott, the
finest cerise pink in existence, rooted cut-
tings, \$2.50 100. Cash. W. W. Stertzing,
7280 Old Manchester, St. Louis, Mo.

VINCAS.

35,000 myrtle, Vinca minor, \$10.00 to
\$50.00 per 1000. S. J. Galloway, Eaton,
Ohio.

Vinca minor var. 2 1-2 in. pots, \$4 per
1.0. E. Y. Teas, Centerville, Ind.

VIOLETS.

Wm. Swayne, Kennett Square, Pa.
Lady Campbell.

WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue
Holton & Hunkel Co., Milwaukee, Wis.

MISCELLANEOUS.

Floral photographs. Foley's, 226-228 1-2
Bowery, New York.

WHOLESALE FLORISTS.

Boston.
For page see List of Advertisers.
N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.
George A. Sutherland Co., 34 Hawley St.,
Boston.
Welch Bros., 15 Province St., Boston.
Buffalo.
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Wm. F. Kastling, 383-87 Ellicott St., Buf-
falo, N. Y.
Chicago.
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J. A. Budlong, 37 Randolph St., Chicago.
E. H. Hunt, 76-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Reinberg, 51 Wabash Ave., Chicago.
A. L. Randall Co., 21 Randolph St., Chicago.
Wleter Bros., 51 Wabash Ave., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.
E. F. Winterison Co., 45, 47, 49 Wabash
Av., Chicago.

WHOLESALE FLORISTS—Continued.**Cincinnati.**

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

Detroit.

For page see List of Advertisers.
Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Dilger, mgr.

New York.

For page see List of Advertisers.
Bonnot Bros., 55-57 West 26th St., New
York.
J. S. Fenrich, 110 W. 28th St., New York.
Ford Bros., 48 West 23th St., New York.
H. E. Froment, 57 W. 28th St., New York.
Alex. J. Guttman, 43 West 28th St.
E. C. Horan, 55 West 28th St., New York.
Philip F. Kessler, 55 W. 26th St., New
York.
Julius Lang, 53 West 30th St., New York.
A. H. Langjahr, 55 W. 28th St., New York.
James McManus, 50 W. 30th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55-57 W. 26th St., New
York.
A. Moltz, 55-57 W. 26th St., New York.
John J. Perkins, 115 W. 30th St., New York.
John I. Raynor, 49 W. 28th St., New York.
W. F. Sheridan, 39 W. 28th St., New York.
Traendly & Schenck, 44 W. 28th St., N. Y.
John Young, 51 W. 28th St., New York.

Philadelphia.

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W. E. McKissick, 1221 Filbert St., Phila-
delphia, Pa.
Leo Niessen Co., 1217 Arch St., Phila-
delphia, Pa.
S. S. Pennock, 1612-18 Ludlow St., Phila-
delphia, Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504
Liberty St., Pittsburg, Pa.
J. B. Murdoch & Co., 545 Liberty St., Pitts-
burg.

New Offers in This Issue.**ANCHOR GREENHOUSE HOSE.**

Mineralized Rubber Co., New York, N. Y.
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BEDDING PLANTS.

W. W. Edgar Co., Waverley, Mass.
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**BEGONIAS GLOIRE DE LORRAINE,
TURNFORD HALL.**
J. A. Peterson, McHenry Ave., Westwood,
Cincinnati, O.
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BOX FOR EDGING.

J. H. Troy, New Rochelle, N. Y.
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**CYCAS REVOLUTA STEMS; LILIAM
HARRISII AND LONGIFLORUM.**

J. M. Thorburn & Co., 36 Cortlandt St.,
New York.
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FLORISTS' LETTERS.

Koral Mfg. Co., 26 Hawley St., Boston.
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FLORISTS' SPRING REQUISITES.

H. Bayersdorfer & Co., Philadelphia.
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**GREENHOUSE BUILDING MA-
TERIAL.**

S. Jacobs & Sons, 1398-1408 Metropolitan
Ave., Brooklyn, N. Y.
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HARDY PLANTS.

R. & J. Farquhar & Co., 6 & 7 S. Market
St., Boston.
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MOWERS REPAIRED.

T. J. Grey & Co., 32 So. Market St., Boston.
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**NEW DAHLIAS, HARDY ROSES,
AQUATICS, ETC.**

H. A. Dreer, Philadelphia.
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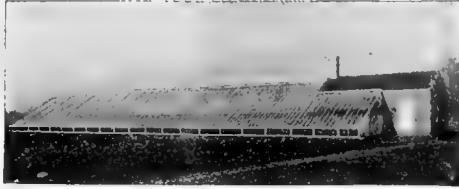
**RUSTIC WORK, HANGING BASK-
ETS, ETC.**

Reed & Keller, 122 W. 25th St., New York.
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**YEWS, JAPANESE WISTARIAS,
ENGLISH H. P. ROSES.**

Wm. W. Edgar Co., Waverley, Mass.
For page see List of Advertisers.

AS A RULE



too little attention is paid to the quality of materials that go into your greenhouse and too much to the price. When a man talks price on Cypress materials, keep in mind that a good thing always costs, and it always costs not to have a good thing.

We furnish only the good thing.

HITCHINGS & COMPANY,
Greenhouse Designers and Builders,
Manufacturers of Heating and Ventilating Apparatus
1170 BROADWAY - - NEW YORK

GREENHOUSES BUILDING AND PROJECTED.

Richmond, Ind.—E. G. Hill Co., six houses.

Alexandria, Va.—D. Grillbartzer, four houses.

Boise, Idaho.—Boise Floral Co., three houses.

No. Attleboro, Mass.—Neuchez Bros., one house.

Billings Bridge, Ont.—W. McCann, one house, 20x75.

Toledo, O.—Perennial Gardeners' Co., range of houses.

Murray Hill, N. J.—L. B. Coddington, one house, 56x400.

New Castle, Ind.—William Dittmann, three houses; Benthley-Coatsworth Co., three houses; Weiland & Clinger, three houses.

NEW FERTILIZER.

Consul Worman, of Three Rivers, writes that the Canadian agent in Norway reports from Christiania that a new fertilizing product, nitrate of calcium, concerning which he has sent a full report under date of January 4, 1906, and called the "Birkiland fertilizer," is manufactured from the nitrogen of the atmosphere, and its price has been fixed at \$4.13 per 220 1-2 pounds to farmers, while Chile saltpeter costs them \$5.33 for the same weight. Experiments last summer have proved that the two fertilizers are very near of equal value

to plants. Just now the fertilizer should have special attention from those who have hitherto used kali from Germany, which product a German trust is advancing in price to an unreasonable figure.

FOR SALE

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR SALE—Two greenhouses, 23x95, 20x68, with hot water heating apparatus and well stocked with Carnations and Violets. Will sell as it is with dwelling house attached and 17,000 feet of land, or to be taken down and removed. Address 703 Chestnut St., Waban, Mass.

Holds Glass Firmly
See the Point & PEERLESS
Glazing Points are the best.
No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.

FULL SIZE No. 2

BY SLIPPING A
PEERLESS GLASS REPAIR CLAMP
over a cracked glass you protect your stock, save coal and glass. Do it now before the high winds play havoc with your roots. \$1.00 will repair 150 lights. Ask your supply man, or
A. KLOKNER, Wauwatosa, Wis.
Endorsed by about 400 prominent florists.

When You

buy tobacco dust to burn from a seedsman, thinking it is **THE FUMIGATING KIND TOBACCO POWDER**, ask him if the bags bear our brand, name and address; if they do not, you are getting his substitute for it—ground stems—and not **THE FUMIGATING KIND TOBACCO POWDER** made from the pure leaf tobacco, which seedsmen seldom keep, as our price to you and to them is the same. You can try ours for a few cents; let us tell you how.

THE H. A. STOOHOFF CO.
Tobacco Powder Hobbyists,
116 West Street, New York.

Carman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse.
Nonpoisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down mildew. \$1.50 per gallon. Also in quarts, half gallons and in bulk. Send for circulars.

PERFECTION CHEMICAL CO.,
Flushing, N. Y.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/4 " " "	5.25	60 8 " " "	3.00
1500 2 1/2 " " "	6.00	HAND MADE	
1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
800 3 1/2 " " "	5.80	48 10 " " "	4.80
500 4 " " "	4.50	24 11 " " "	3.60
320 5 " " "	4.51	24 12 " " "	4.80
144 6 " " "	.16	6 16 " " "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases etc. Ten per cent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower.. POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money

W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.

POT MAKERS FOR 140 YEARS
A. H. HEWS & Co. Inc. CAMBRIDGE MASS.
KIND OF FLORIST

NOW IS THE TIME

to correct all your

HEATING TROUBLES

We are prepared to advise, make estimates, and undertake to rectify all defective piping and extravagant heating apparatus and install

SATISFACTORY CIRCULATION

throughout greenhouse ranges **either old or new.**

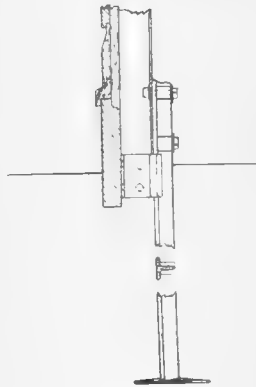
Don't tear down and throw out what has cost you money until you consult us. **We can save you expense, worry and fuel.**

THE HOLLY-CASTLE COMPANY,

Heating Engineers,

49 FEDERAL ST., BOSTON

This Shows



our cast iron foot piece supporting the angle iron post, and the base board bracket attachment. This bracket is clamped around the foot piece and screwed onto the base board—when the base board rots, it's only a matter of a few screws and the new board's in place, without in any way disturbing the siding.

Lord & Burnham Co.

GREENHOUSE DESIGNERS
and MANUFACTURERS

1132 BROADWAY, cor. 26th Street, N. Y.
Boston Branch: 819 Tremont Building

In the first place we guard against rot and then we guard against extra expense when the rot comes.

We protect ourselves by protecting you.



GREENHOUSE MATERIAL.

OF ALL KINDS

FOLEY MFG. CO. 471 W. 22ND ST. CHICAGO

VENTILATING APPARATUS PURLIN FITTINGS, HOT-BED SASH & C.

SEND FOR NEW FREE ILLUSTRATED CATALOGUE -



PATENTS

Trademarks and
Copyrights

Send your business direct to Washington
Saves time and insures better service.
Personal attention guaranteed.
Twenty five years' active practice.
SPECIALTY: "Working on the Failures
of Others."

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

WEATHERED COMPANY

46 MARION ST., NEW YORK

GREENHOUSE BUILDING AND HEATING

Send for Catalogue.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

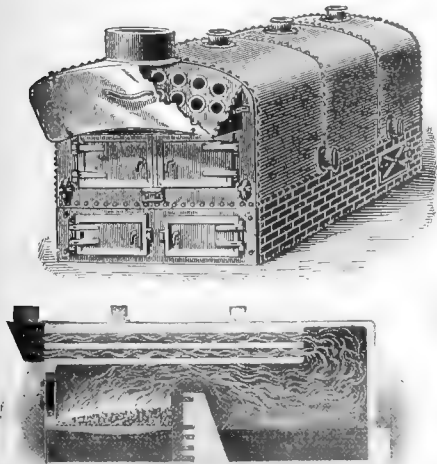
**YOU WE } WANT { ORDERS
ADVERTISING**
LET US GET TOGETHER

NOW IS THE TIME TO ORDER
ANCHOR GREENHOUSE HOSE
BEST FOR FLORISTS
MINERALIZED RUBBER CO., - NEW YORK

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,
35 Erie Street, CHICAGO.



Boilers made of the best material, shell, firebox sheets and heads of steel water space all around front, sides and back. Write for information.

GREENHOUSE MATERIAL

Made of clear Gulf Cypress is what we manufacture. We supply everything for your houses and your carpenter does the rest with the working plans we furnish. Let us figure on your requirements. We can save you money.

S. JACOBS & SONS
1365-79 Flushing Ave., Brooklyn, N. Y.

SEND FOR CATALOGUE OF
SCOLLY HOT WATER
and **STEAM BOILERS**
JOHN A. SCOLLY

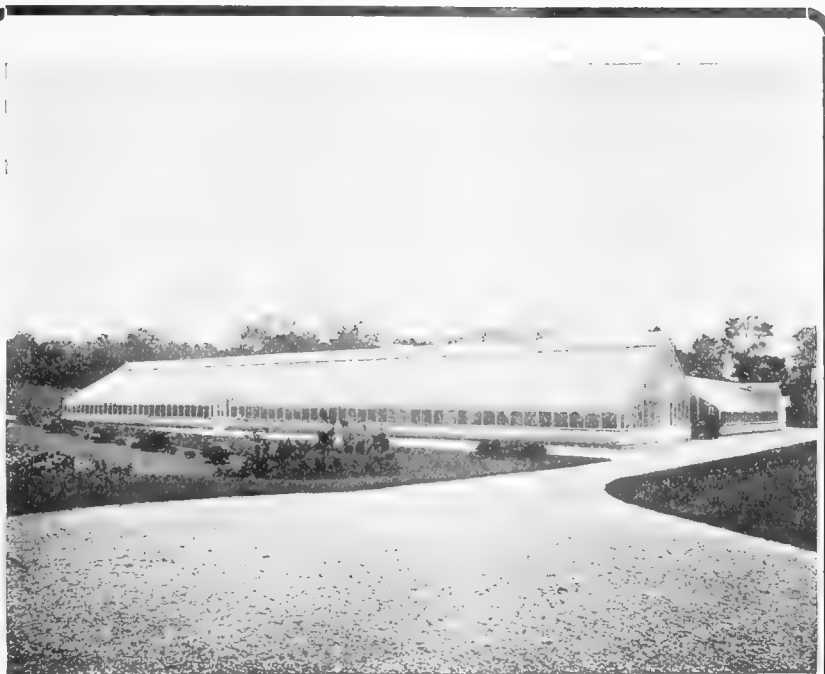
73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY



GREENHOUSE CONSTRUCTION
LUMBER

John C. Moninger Co.
117 E. Blackhawk St., CHICAGO

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address
John G. Esler, Saddle River, N. J.



U-BAR REASON

NUMBER SEVEN

The leakage of heat in a greenhouse becomes not only a matter of "Love's Labor Lost" but that depressing one of expense.

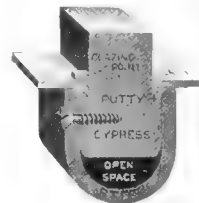
U-BAR GREENHOUSES

Are the Best Greenhouses Built

because there is no form of construction so light, so absolutely leak free, none so easy to heat, none so easy to keep heated.

KNOW U-BAR REASONS
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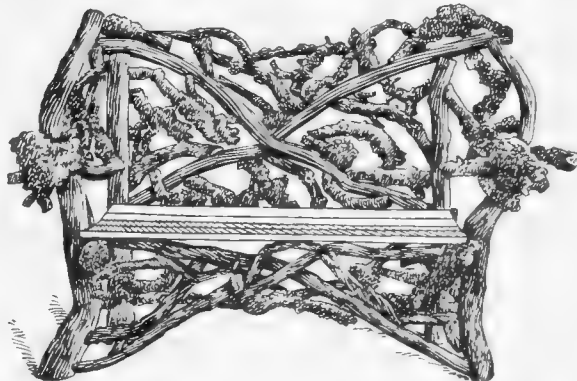
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HORTICULTURE

Vol. III. APRIL 28, 1906 No. 17



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Some People have taken our advice as published in

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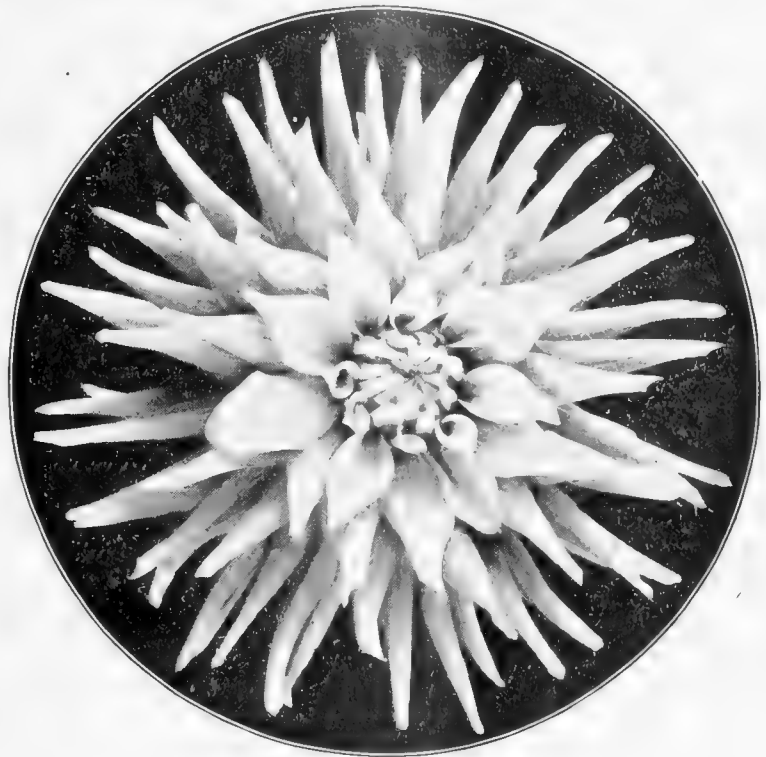
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HORTICULTURE

VOL III

APRIL 28, 1906

NO. 17

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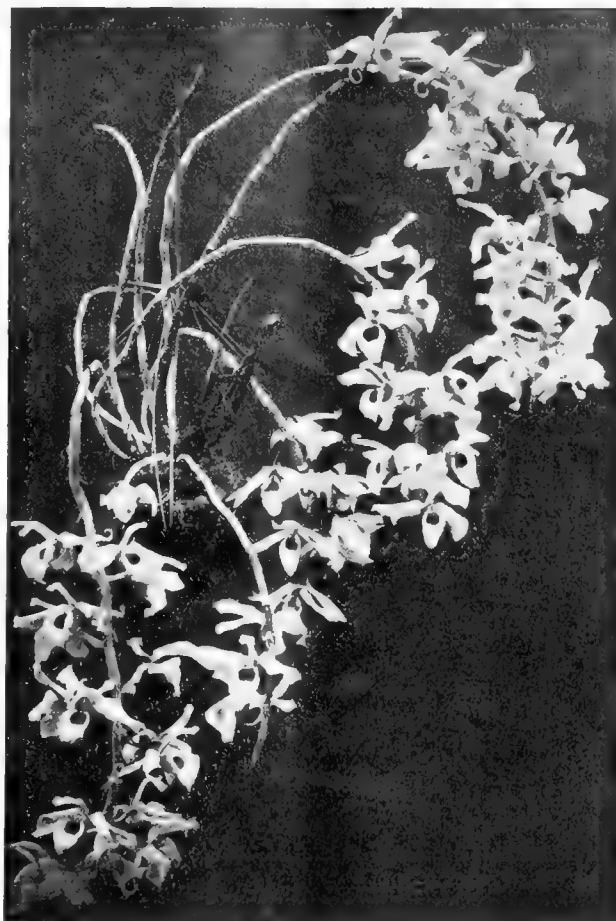
Dendrobiums Wardianum and superbum Dearii

These two handsome species I grow during the growing season in the same house, where the temperature ranges from 60 degrees to 70 degrees at night, with a rise of 10 degrees or 15 degrees in day time. *Dendrobium superbum* should be watered very carefully and sparingly until the new growth is well rooted, otherwise these are very apt to damp off. If the atmosphere in the house is charged freely with moisture one thorough watering every ten to fifteen days will be sufficient; on bright sunny days they receive a light syringing early in the morning. When the young growth is well rooted the amount of water is increased and until the new bulbs reach maturity, the plants are watered every day. From the time the new growth is fully developed very little water is given until the following spring when the flower buds are developing and new growth starts in.

As soon as the new pseudo bulbs have finished the plants are removed to cooler quarters exposed to full sunshine; in this house the temperature is kept at 58 degrees to 60 degrees at night and 70 degrees to 75 degrees in daytime with sun, 65 degrees without sun. Here the plants remain until the flower buds are about half developed when they are again removed into their growing quarters. For want of room some plants were left in the warm house all the year round, but they did not flower nearly as well as those removed to cooler quarters. In such warm temperature the plants will have to be watered too often to keep the bulbs from shrivelling, and consequently they will not ripen up so well.

Dendrobium Wardianum is treated similarly, except that it receives more water and is rested in a cooler house where the temperature is kept at 45 degrees to 50 degrees at night. While the flower buds are developing the plants are removed to the same house where *D. superbum* and most other dendrobiums are resting. When all the flowers are out, the plants are again removed to the cool house where they remain until about the middle of March; at that time they are placed in the warmest house to complete their new growths.

I find it most essential for all dendrobiums to use



DENDROBIUM SUPERBUM.
Uppermost spray, Col. Dear's variety.

as small pots or pans and as little potting material as possible; this latter consists of osmunda fibre with a little fresh sphagnum moss.

Another dendrobium which does well under the same treatment as given to *D. superbum* is *D. Bensonianum*.

M. J. Ope



DENDROBIUM WARDIANUM.
(In 4 inch pot.)

Spring Flowering Dendrobiums

Early-flowering dendrobiums will now be in their full spring glory, and where a good collection is cultivated, no richer floral feast could be desired. The fact that such brilliant blooms appear on dry and sometimes withered stems, quickens interest and enhances their many charms. When fully expanded, however, their freely produced flowers, in most cases obscure the barren look of the plants, and judiciously arranged amid greenhouse plants and ferns, or suspended, a choice display may be had from March to May.

A few general remarks are offered on a dozen varieties which may be described as fairly representative types of this beautiful section. The magnificent *D. Wardianum* easily stands first as a popular favorite; the introduction in quantity of the *Lowii* and *giganteum* types from Burmah at a cheap rate has given it a prominent place among democratic flowers, and when an orchid is in demand there is no better "button hole" flower.

Imported plants are preferable to begin with; being full of native vigor, they come away strongly. Then, too, there is always the possibility of a pure white form turning up and white forms with only a dash of yellow in the throat are not uncommon. It has frequently been charged against Wardianum, that it rapidly deteriorates after three years, but if a somewhat cooler treatment than is usually given be adopted, coupled with severing the back bulbs, leaving only from three to four for each lead, a new lease of life will be given provided other conditions are favorable. Wardianum delights in a light position and after growth and roots are fairly started will take copious supplies of water; a severe drying out when growing will certainly result in deformed or smaller blooms. A weekly dip in weak cow-manure when the bulbs are filling out will be beneficial; after growth is fully ripened water should be gradually withheld and plants removed to cooler winter-resting quarters, restarting them again in intermediate house when flower buds appear. Growth will often start too early even in a cool dry place, but water should not be given on this account.

D. nobile is well known as an old and floriferous kind, but there are now many superior varieties of the type *Sanderiana*, *nobilis*, *Cooksonii*, etc., besides the numerous hybrids which claim it as one of the parents; they all require a slightly cooler treatment than Wardianum, but not being of such a deciduous character should not be so severely dried off as that variety.

D. Devonianum is of long, thin, reed-like growth, the small finely fringed flowers being closely set on quite 2 ft. of stem; it is one of the most effective for exhibition purposes; the great secret of successful culture is a light position in East Indian house with copious supplies of water during growth, syringing frequently to keep down red-spider to which it is specially liable. *D. Brymerianum* is unique, with deep yellow flowers of exquisite form with a remarkable beard-like lip; it is not very free but often flowers appear on old growths. It enjoys stove heat the year round, with very little compost, and a careful watering as it does not make roots freely. *D. crassinode* may be described as a dwarf Wardianum and rivals that lovely variety in flower but the flowers are smaller.

D. Falconerii is distinct and of grassy growth which forms a thick mass of knotty pseudo-bulbs and is one of the few dendrobiums that may be successfully grown on blocks or tree ferns; the hottest place in the East Indian house suits it well, with frequent syringing of the aerial growth. It is not an easy subject but is very beautiful, much like Wardianum with a richer color in the throat.

D. thysiflorum requires intermediate temperature; its large grape-like clusters of cream and yellow flowers are freely produced on old and new growths; the bulbs being long and bulky it is more adapted for pot culture than baskets. *D. aureum* (syn. *heterocarpum*) is distinguished for the sweet fragrance of its golden yellow flowers and though an old introduction is not common: of slight growth it is adapted for small pans.

D. Ainsworthii was one of the first garden hybrids from *nobile* x *aureum* and may be described as an improved *nobile* with the fragrance of *aureum*. It is wonderfully free and should be treated like *nobile*. *D. Pierardii* is a very old species, flowers of a creamy white. The growth has a downward tendency and it should be grown in baskets. *D. Jamesianum* is one of the very few dendrobiums suitable for cool-house treatment and when well grown its white and yellow flowers are freely produced from the apex of growths.

As a general rule the smallest possible receptacles

should be used; using as compost chopped peat and moss with a little leaf mould and sand; for pans only a few crocks are needful, giving depth in order to firmly fix the plants. The base of the bulbs should only be tried for security, allowing the bulbs to droop naturally. When flowering, a nice dry, cool, and shaded house should be set apart, where their beauties may be comfortably enjoyed for a more extended period.

Edgar Elvine

British Horticulture

BULB CULTURE IN IRELAND

An interesting collection of narcissi and daffodils was staged at the Royal Horticultural Society's show on April 3rd from the bulb farm belonging to Sir Joselyn Gove. The farm is situated close to the seashore on the borders of Sligo bay. Here within the last six years a prosperous undertaking has been built up. Acres of bulbs are cultivated, the fields lately being a magnificent sight. The owner claims to have one of the finest collections of daffodils in the world. He has secured the entire stock of several new varieties including *Acme*, which was brought out by the Rev. G. Engleheart. In addition to supplying the bulbs large quantities of cut bloom are despatched to market. A large number of seedlings are being raised and several of these are likely to prove a valuable addition to the existing varieties.

AN ENGLISH CARNATION RAISER

Increased attention is now being given by English growers to raising new varieties of the winter-flowering carnations. Amongst the number is A. Smith, a market florist, whose establishment I visited a short time ago. Mr. Smith secured in the same week a certificate from the Royal Horticultural and the Royal Botanic Societies for a new scarlet tree carnation, *Britannia*. Mr. Smith will not be sending out any of the stock until January, 1907. Another of Mr. Smith's introductions is *Progress*, a cerise tinted flower, which will be sent out with *Britannia*. Others are *Coronation*, which has smallish blooms of a pink tint and *The Dragon*, a variegated carnation in a buff ground.

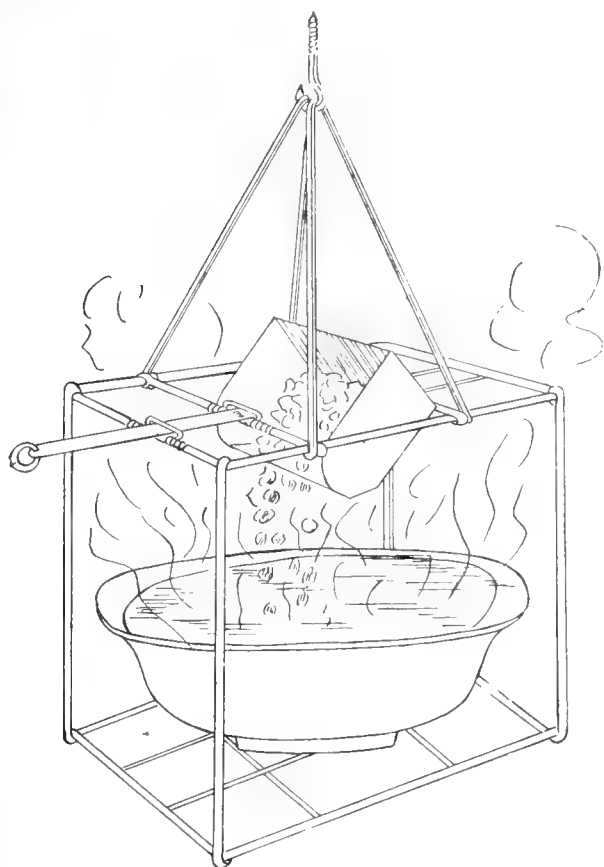
THE FUTURE OUTLOOK

In going through the houses I saw a useful batch of *Lawson* and *Enchantress*, two of the most popular market varieties now cultivated. Discussing the question of carnation raising with Mr. Smith I found that he was full of hope as to the future success of this branch in England. "I do not see why we cannot raise as good varieties in England as in America," he contended. "The American varieties are grown under different conditions and very often do not succeed when transferred to new surroundings on this side. The American growers have the advantage over us in obtaining a longer share of sunshine in the winter-time. The tree carnations are greatly increasing in popularity." As to the new Winter Flowering Carnation Society, Mr. Smith considered that it was very necessary. "There should be a body of experts," he stated, "to grant certificates to the new introductions, which should be registered. This would prevent a number of worthless varieties being placed on the market. The trade would also have some confidence in sending their new varieties before a committee of specialists." As regards the recently formed society, I learn from Mr. Hayward Mathias, the Honorable Secretary, that a meeting is to

be held during the Temple Show next month when matters pertaining to an annual exhibition, the election of officers, etc., will be discussed. At a recent meeting the Provincial Committee decided that the minimum subscription should be 5 shillings per annum.

A SAFETY CYANIDING MACHINE

A Leeds nurseryman has invented a safety cyaniding machine which is depicted in the accompanying sketches. The use of hydrocyanic acid gas as a fumigant against the dreaded insect pests is generally recognized as a valuable agency in cleansing the greenhouses, at the same time effecting a considerable saving in the cost of fumigating. Many nurserymen are prevented from using the remedy owing to the danger entailed. By the system adopted the risks are entirely obviated, owing to the operator being able to lower the cyanide into the sulphuric acid from the outside of the plant house. The gas is most deadly to all insects, and will



effectually eradicate mealy bug and red spider. The machine is suspended to the roof of the house by a hook attached to side bars. The bowl is attached at the bottom of a frame work, above which is a scoop. The requisite quantity of water and acid is placed in the bowl. The scoop in which the cyanide salt is placed above the bowl is held in position by means of a lever, to which a string is attached, leading to the outside of the house. The cyanide salt having been placed in the scoop, the operator leaves the house and locks the door. From outside the structure he pulls the string which releases the lever. The cyanide then falls into the acid, and the gas is immediately evolved.

W. H. Adsett.

London, April 11, 1906.

Ornamental Vines

The common grape vine may be said to be a truly ornamental plant and as such may be used in situations where a quick effect is required to hide old trees, walls, and ruins, also by artificial training in the garden the double glory in the fall of foliage and fruit make it useful for purely decorative reasons; but ornamental vines proper are those whose primary quality is beauty of growth and foliage rather than fruit, though with some of these, both may be secured in very favorable situations, with artistic effect. On the continent of America where the veranda style of architecture is favored, there is perhaps a specially wide field for all types of really good climbers, and for the decoration of pergolas, arches, pillars and trellis work, few plants are so admirably adapted as the vine. Among recent introductions there are two varieties especially that stand out with promise of great usefulness, namely, *Vitis Coignetæ* and *V. purpurea atro-sanguinea*; in England and sheltered positions in Scotland they have been proved perfectly hardy and they suggest themselves as being equally fit for the more favored sections of the United States and Canada; both are of free growth and exceedingly rich in the fall with gorgeous coloring. *V. Coignetæ* is vigorous and admirably adapted for covering large lattice trellises. The leaves are of a deep green with purple veins showing up well on this ground, ultimately the whole leaf turning to a deep scarlet color; they are not too thickly produced but are as large as *Aristolochia Siphon* and the plant will serve as a companion or as a nice change to that useful but ubiquitous old climber. *V. purpurea atro-sanguinea* is of smaller growth the leaves being also more compactly set upon the stalk, and like *V. inconstans* (syn. *Ampelopsis Veitchii*) is more adapted for covering walls than *Coignetæ* but it may be used as a climber in all situations. The leaves are a rich scarlet and color earlier and more freely than *Coignetæ*. These two are certainly the best out of about a dozen of purely ornamental vines, but there is one other which deserves more attention—the pretty *Vitis heterophylla* of greenhouses, but more properly known as *V. quinquefolia variegata* of gardens; not perfectly hardy it still flourishes well in sunny sheltered positions and for dainty light pillars or rock work is a very neat plant; its purple stalks and petioles, creamy white mottled foliage and charming blue berries make it very useful when cut for table and floral decoration. With regard to propagation, nice fall growth may be cut up into pieces and rooted on a warm bottom, then gradually drying these off in the winter, restarting in the spring, but a much surer method is to take well-ripened wood about February or March, cut up into single eyes as with fruiting vines and grow straight on inside, ripening well and just protecting from frost the first winter, planting out the following spring in a sunny position with good drainage, mixing ordinary garden soil with turfy loam, rough bones and sand.

EDGAR ELVIN.

Lachenalias

The genus *Lachenalia* belongs to the lily family, and has about forty species all natives of South Africa. All the species are not showy and therefore many of them are not common in cultivation.

Most of the private gardeners know the common species of lachenalias, but after all they are not grown very much and this is rather surprising as they have lasting qualities while in flower that few plants possess. To last three months in good condition is no uncommon thing if they are watered properly. Mechanical watering or yet the hose would make quick work of them.

In this country the bulbs are very expensive and I never could understand why this is so as there are few bulbous plants that increase so quickly as lachenalias do.

Some day some shrewd florist will take hold of this plant and push it as a novelty. In a window where the sun shines most of the day there isn't a more lovely plant than this is. And when it will be recalled that the very best *Lachenalia* we have and which is also a hybrid was raised by a minister, Rev. John Nelson, in his window, there need be no surprise that I should recommend it as a valuable window plant.

The cultivation of lachenalias is very simple and they can be grown by any person. If the plants are wanted for Christmas holidays the first batch of bulbs should be potted in July.

For a succession keep on planting in August and September.

We grow them in shallow pans which are eight inches in diameter using plenty of drainage which keeps the soil sweet and in good condition.

The compost consists of good loam, sheep manure, leaf mold and rough sand.

After the plants have flowered and the leaves begin to get yellow, take the plants on a shelf where they can get plenty of light and dry up the foliage and bulbs. The bulbs are then to be potted in the pans during the summer and are to be watered, thus imitating nature as far as possible. When potted time comes the whole bulb is to be put in the soil where they have been resting and to be watered according to size. All

the large bulbs are selected and potted up into pans. In this way they give more uniform trusses of flowers than if the large and small were grown together. The small bulbs are grown in boxes and they make good flowering bulbs by the following year. Just after they are potted one good watering may be given with the good old-fashioned watering pot which will settle the soil. They will require very little water after this until growth begins. Place them in a cold frame where they can get plenty of light and air. They can stay in the frame until frost sets in then they can be removed to the coolest house and placed in a position where abundant light can be procured. The light makes the plants more stocky and the flower spikes are stronger

and require no staking. The leaves are very easily disfigured if cold draughts strike them.

A small pinch of Clay's fertilizer makes a great improvement on the plants if given just as the flower spikes begin to show.

One of the best and most uniform growers is *Lachenalia Nelsonia*, which is shown in the photograph. It has golden yellow flowers which are produced in racemes eight or nine inches high.

L. tricolor is one of the commonest species and the flowers are made up of three colors, bright green, red and yellow.

L. pendula is a strong growing kind. It has larger bulbs and leaves and longer flower stems than the above kinds. The flowers are deep purple, red and yellow.



LACHENALIA.

Robert Cameron

Acacias

The genus *Acacia* has a species membership running up in the hundreds, most of them producing yellow inflorescence, and largely from Australia, yet, notwithstanding their effectiveness, they are less

well-known numerically than they were years ago. This class of plants require an abundance of water at all times, especially in the growing season; frequent syringings are very beneficial to their well being. Stimulating waters are also of great assistance; as they are gross rooters any good standard potting soil will suit them. Low temperatures are more in keeping with their requirements in winter than higher ones, 40 to 45 deg. Fahr. being quite high enough.

Should they ever get sickly and dyspeptic as indicated by pale foliage and other signs, planting out in mother earth is the best recuperative method to adopt; in fact this method is to be recommended whether sickly or not, as greater progress in size is made thus in a given time. It is not to be taken for granted, however, that the method is a good one irrespective of condition, for it is necessary ere the plants are turned out, that the root system should embrace the soil so thoroughly as to prevent its dissolution at lifting time in the fall.

Those enumerated below are comparatively easily rooted with no greater special care than bestowed on the general run of cuttings, excepting *A. pubescens* which, while not absolutely impossible to root from wood-cuttings is pretty nigh so. It is said that propagation from root cuttings of this species is within easy accomplishment although I have not tested this method myself.

Acacia armata leads the list as the best well-known kind before the public at the present time. *A. a. hybrida* much resembles the former but is a more rapid grower and less stiff in habit; the internodes from leaf to leaf are considerably further apart, the leaves themselves being longer and less broad. This variety makes a fine specimen bush plant in much less time than the former does.

A. Baileyana is a comparatively new-comer from Australia and is one of the earliest to flower, being in flower somewhere around Christmas; it is graceful and airy in habit of growth, producing long, slender, willowy twigs clothed at the proper time with fluffy globose yellow flower-heads.

A. Drummondii is, in my opinion, the peer of all the acacias as a bushplant. It looks its best trained in pyramid form, and when well done is a gem of the first water for any purpose. It is especially telling for table and other small decorations when but one and a half to two feet tall, and equally effective and grand in specimens four times the latter size with proportionate width. Clad in its clear canary yellow catkin-like inflorescence the most refined table cannot help being charmed.

A. heterophylla is an exceedingly graceful kind when once formed. It roots readily, and attains small decorative plants in two to three years under attentive care. It appears the prettiest when trained to a bush plant on a few feet of clean stem, over-topped with the azalea semiglobular type of head. It should be cut back severely annually after flowering in order to enable it to push forward a sheaf of its willowy growth for the ensuing year's flowerings.

A. pubescens is so well known that detailed description would seem superfluous, yet how few commercial or, for that matter, private establishments possess it. It is less well-adapted to small decorative plants than others as its habit of growth is sprawling and drooping. To illustrate to best advantage the pre-eminent elegance of this kind, the high standard open-umbrella shape method of culture is unquestionably the one to bring this about; the higher the standard the grander it will appear. Six feet of a clean stem is a good height, but seven feet is better. A well formed, massive head over-

topping any of those stems, when in flower, is indescribably beautiful.

A. cultriformis is another very fine species, and easily handled; flowers deep yellow in crowded terminal racemes; stiff and somewhat formal in manner of growth but withal pliable for any desired shape.

H. Furber

Culture of the Cyclamen

II.

The young seedlings should be getting crowded in the boxes by this time, so the first potting ought to be attended to or the plants will become drawn. For the first potting we use 3 1-2 and 4 inch pots, as smaller sizes are liable to get dry in spite of the most careful attention, and besides the young plants ought to lift with a ball large enough to comfortably fill a 4 inch pot. The soil should be one-half turfy loam, one-fourth well decayed manure, the remaining fourth to be composed of leaf mould, sand and firm charcoal, this compost having feeding elements and still being very porous.

A very important point is the manner of potting. Plants that are potted loosely grow larger, but will have that straggly appearance so often seen, one leaf stalk longer than the other, and the flowers, unless they get artificial support, will, with the first handling, very likely hang over the edge of the pot. Artificial supporting of cyclamen we detest to see. On the other hand, too firm potting retards the growth, so we should aim at a moderate degree of firmness and the plants will be compact and the flowers stand on their own legs. Growers might experiment a little on this, it being very interesting to note the different finish the plants will have with the different methods of potting.

Old plants that are past flowering and intended to be grown on for another year should be cleaned of all decayed leaves, old flowers and seed pods, and given a shift into larger pots, using the same compost as before mentioned. They probably will not make much growth for a month or two, but they will be making roots and will be more likely to start when the season arrives.

Any plants that are badly infested with that troublesome little mite so prevalent among cyclamens, ought to be discarded, as no cure has been found for it so far. Fumigating and spraying is of no avail unless done so strong as to injure the plants; dipping in a strong solution of fir tree oil will keep them in check, but dipping is a laborious undertaking to those who have any number of plants. The old maxim has "prevention better than cure," so we would advise fumigating the house with hydrocyanic gas before putting the young plants in, then keep a good layer of tobacco stems among them to be renewed at intervals, and we feel sure that insects of any kind will give no trouble whatever.

James Stuart

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

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Telephone, Oxford 292

WM. J. STEWART, Editor and Manager.

Attractions of the fern garden

The excellent articles on ferns for every day use, from the pen of A. Hans, which we have published at intervals during the past year have, in some degree, failed of their purpose if they have not awakened a greater interest in the subject of hardy ferns. With the hundreds of crested, plumed and laciniated varieties of the hardy English and American species which fern enthusiasts have collected and distributed, the fern rock garden may be a spot of great beauty and absorbing interest. It can be located where nothing else would thrive as well, and, once established, is not likely to be abandoned. Now is the time to start, before the young fronds commence to unfold. Growers having good collections to offer should advertise them at once.

San Francisco's distress

Although we are still without definite news as to the fate of our brother horticulturists of San Francisco, there is no reason to believe that they have escaped unhurt the awful tragedy which has horrified the whole world and touched the universal human heart as it has never been touched before. In the cruel completeness of the disaster and the all-pervading distress, it is perhaps well for the present that whatever humanity prompts us to offer for the relief of the suffering be done without discrimination, but later on when facts in detail have been learned some action should be taken by the horticultural interests of the country, through the Society of American Florists or other national organizations to extend a direct, practical, full-handed relief to our stricken brethren of the Pacific coast, whose homes have been overthrown, possessions laid waste and business ruined.

Building up the club

The phenomenal growth in numbers and activity of the Gardeners' and Florists' Club of Boston, of which the social gathering recorded in this issue is one of the outward signs, shows what may be accomplished under

the right incentive and well-directed effort. Boston is sometimes criticized for her alleged apathy by those who the right kind and usually "gets there" when occasion presents. The Boston club is fortunate in the quality of its officers. To President Wheeler, Secretary Craig, and also to Mr. Wheeler's predecessor, Mr. Pettigrew, belongs the credit, especially, for the progress recorded during their incumbency. What has been accomplished by them is possible in any other similar organization. We do not hesitate to assert that it is within the power of any club president—if he possesses the influence and good will which an election to this honorable position would indicate—to bring to his meetings the people and the enthusiasm necessary to duplicate in quality and effect the prosperity attained by the Boston organization. There are presidents and presidents. It is not by noisy demonstration or shrewd ax-grinding, neither is it by mere dignified posing, with gavel in hand, once a month on the platform, but by persistent, earnest personal work done at a serious sacrifice of time and self-interest that proud results are brought about. That's the kind of executive ability that counts.

Gardens for the multitude

While the amount of money expended by affluent families on vast residential estates is very large, and while these operations call for an enormous quantity of choice material, enlist the services of high-priced designers, and furnish work for many employes, yet there can be no question that the great source of prosperity for the plant grower and nurseryman lies in the multitude of people of moderate income and moderate expenditure. Stimulated by the object lessons in public parks, cemeteries and private estates this great class, in every section of the country, are in the frame of mind to follow suit, to buy and plan and plant and thus make for themselves homes surrounded with gardens and verdure. The great need today is for men expert in garden craft to make plans and give correct advice as to planting, at a moderate charge. The big landscape firms have no time or disposition to take up this class of work; the men willing to undertake it have been too often incompetent. It is to the advantage of every professional gardener to do all he can to popularize rural life by making it appear in a reasonable and attractive light. Some seclusion and restful surroundings, with just enough pleasant occupation to keep away monotony; these advantages of country living without enough of its burdens to drive the owner back to a city existence may be conserved by the intelligent landscape gardener who can frugally yet effectively lay out a small place with such materials and such method of planting that it shall require thereafter a minimum amount of work to keep it in order. The ordinary amateur with his crude ambitions is liable, if left to himself, to lay the foundation for expenses that will in a short time wean him of all gardening desires and permanently stifle his natural fondness for horticultural pursuits.

"AN EXHIBITOR'S GRIEVANCE" FROM THE JUDGE'S POINT OF VIEW.

Editor of HORTICULTURE:

Dear Sir:—I notice in the issue of HORTICULTURE, April 14, 1906, an article signed by John McFarland, commenting on awards made him at the recent March exhibition. Ordinarily such articles are allowed to pass without remark by those who know how utterly unjust and misleading they are; but as you, Mr. Editor, have seen fit to give the article prominence by making editorial remarks upon it I think the awarding judges should be heard from also. I am speaking for the Horticultural Society's judges only, as the Rose Society's awards were made by special judges in no way connected with the regular standing committee of the Massachusetts Horticultural Society.

In the article referred to Mr. McFarland complains because he did not receive first prize for his vase of Brunner roses and seems to think an injustice was done him. I can assure him that no injustice was intended and in fact he received all that was due him, for the award was in conformity with both the rules and the quality of the flowers shown. They were good Brunners but not first prize flowers, as he himself well knows and I will venture to say, knowing the quality of flowers he can produce, that probably, he would resent any imputation that these were the best he could grow.

I think Mr. McFarland's statement that he entered in both the Massachusetts Horticultural Society's class and the Rose Society's class and received second prize in both, rather substantiates any claim that no injustice was done him for the two committees worked independently and neither knew nor cared what awards the other might make. Any offer he may have had for the flowers is of no moment in this connection as the society does not pretend to buy the flowers but simply offers prizes for the exhibition of them and when a man enters in competition for these prizes he should make up his mind to take an adverse decision as cheerfully as he would a first prize, for the judges would as willingly give him first honors as any one else providing his exhibit is worthy. I heartily commend your remarks in regard to this matter and wish every exhibitor could be made to see the wisdom of them. In regard to the vase of lily of the valley exhibited by him I will say that it was a beautiful vase of flowers, but it was only one among a great many miscellaneous exhibits and it should be borne in mind that money awards for exhibits of this nature must necessarily be regulated by the relative importance of any exhibit under consideration as compared with the whole exhibition. It was one of the cases where it was difficult to decide upon a proper recognition. A larger amount of money would have been entirely out of proportion with the amounts awarded other similar exhibits. A vote of thanks would not have been appreciated and a cultural award was not available for there was nothing to lead us to think that the roots from which the flowers were forced were of his own production or even Ameri-

can grown. If we had been assured of these facts a cultural certificate or honorable mention would have been in order but although the flowers were of high quality there seemed to be no more cultural excellence displayed in the forcing of them than pertains to the regular practice of any careful grower.

When flowers or plants are put on exhibition it is expected that they will be of the best quality possible. If any extraordinary skill is displayed we are only too willing to recognize it by a suitable cultural award. It would be unreasonable to expect us to give every exhibitor an award of superior cultivation, for such a course would soon deprive such certificates of their value.

It seems to be one of the unfortunate things about competing for prizes and exhibiting that so many, when defeated or awarded a gratuity not in accordance with their own views, are so ready to turn upon the judges and accuse them of dishonesty, incompetency, favoritism and many other short comings without looking into the matter and finding out the truth.

It has been my fortune, or misfortune—as one may look at the matter—to be closely associated with a great deal of judging and many judges and I can truthfully say that I do not now recall a single instance where the decisions have not been given conscientiously and honestly notwithstanding all the ill-natured talk so often heard to the contrary, and the conviction is forced upon me that any exhibitor who indulges in such a diversion is doing himself the greatest injury and is in no way advancing horticulture. He belittles himself and becomes an object of ridicule and suspicion.

A. H. FEWKES, { Chairman Committee
on
Plants and Flowers.
Newton Highlands, Mass.

"MAKES THE WHOLE WORLD KIN."

Editor of HORTICULTURE.

Dear Sir:—Messrs Watkins & Simpson, (Seedsmen) 12 Tavistock Street, Covent Garden, London, cabled us on April 21st:—

August Rolker & Sons, New York.
Wish to express our deepest sympathy in appalling catastrophe to your countrymen.
WATKINS & SIMPSON.

We have acknowledged this spontaneous expression of sympathy on behalf of their many American friends, with a few grateful words of thanks. And we take this means of bringing it to their notice, since your paper is most generally read.

Yours very truly,
AUGUST ROLKER & SONS.
31 Barclay St., New York.

PERSONAL.

Alex. J. Guttman, the New York wholesale florist, sailed on the Bluecher, April 19, for Plymouth, and will return by next steamer, hoping the sea voyage will restore his health which has been poor for some time.

Mr. George Baldwin, formerly with Siebrecht & Son, New Rochelle, N. Y., will hereafter be located at Secaucus, N. J., where as a member of the firm of Carrellis & Baldwin, he will devote his attention to orchid raising.

WHOLESOME CHESTNUTS.

Plant hollyhocks out doors, and dormant canna roots in beds and borders. Remove hybrid tea roses from frames or wherever they have been stored into their growing quarters. Have some kind of shelter or shade handy to protect uncovered hydrangeas in cases of emergency.

If any thing out doors or in frames gets nipped by frost, the first thing in the morning sprinkle with cold water the subject bitten, afterwards keep it shaded for at least a day, or until recovered.

Chrysanthemums are regaining their lost ground. To help them along get a few of the gems of recent introduction as advertised in HORTICULTURE.

Don't lose heart in the attempt to grow Lorraine begonias, some men after repeated failures simply fall into the way of growing them. In view of this it may also cheer you along to be told that all over the country Lorraine begonias are gaining in favor.

Cover old stumps of trees, ugly fences, and rough stone walls, with roses or some of the many climbing plants available, but why rack your head thinking what to plant when from Mr. Walsh of Woods Hole you can obtain for a modest sum a collection of roses, that in a very short time will make the most forbidding objects irresistible magnets of attraction, and that will increase in beauty with the progress of time.

Now the time is fast approaching when most men will wish they could do a dozen or more things at once but it is always better to drop all but one until that one is through with for the time; then go on to the next most needing attention.

If it is desirable to have very large berries in bunches of grapes the berries should be well thinned at first, and the vines only moderately cropped. Heavy cropping is responsible for numerous and various disagreeable developments in grape cultivation. If for any reason two shoots are left to grow from one spur leave a bunch on one shoot only, two shoots are sometimes left for the sake of appearance, the extra one to occupy the place of one that failed. Stop the shoots at two or three eyes from the bunches, and the lateral shoots at the end of every eye right along.

To prevent mildew dampen the pipes, then scatter sulphur over them. While an unsatisfactory state of the border and the roots may to a great extent be responsible for air roots, still if from the start fresh air is admitted whenever possible it will be found that the number of air roots will be less. A continued close damp atmosphere induces roots to come out to feed on the matter floating around. It has occurred to many that these roots rapidly wither when the moisture in the air has diminished when the grapes are well on towards the coloring stage, and it has also occurred to many that it was then that the harm was done, on account of the check suddenly given by the destruction of the vitality of these roots.

NEWS OF THE CLUBS AND SOCIETIES.

RHODE ISLAND HORTICULTURAL SOCIETY.

The regular monthly meeting of the Rhode Island Horticultural Society was held April 18th in Fallstaff Hall, 283 Westminster street. E. A. Stene of the Agricultural College at Kingston was the speaker of the evening, taking for his subject "Spraying Fruit and Other Trees."

At the business session President M. M. Burdick presided. The committee which was recently appointed to look after the securing of a new hall reported that the trustees of the Public Library had consented to the using of the lecture room in that building, and the members then voted to accept the offer. Another committee reported favorably on the action of societies of other States with regard to a measure adopted to be presented to Congress asking for legislation relating to the packing, grading and marketing of fruit. The Rhode Island society resolved that it was in hearty accord with this action and would do its share toward securing right legislation.

Mr. Stene was then introduced and spoke interestingly on the matter of spraying fruit and other trees. He said in part: "My department at the college has been termed the missionary department, because wherever I have had occasion to go the cry has been 'Let us (s)pray.' But this matter of spraying is a very important one. To-day there is a demand for better fruit, and the marketmen tell us the demand is greater than it ever has been before. We are confronted with a vast array of diseases among fruit and other trees and there are insects to-day at work on them to their destruction that our forefathers never heard of. This is because in recent years there have been many insects imported. Out of 73 destructive insects it is said that 30 of them are the products of other countries. And in the importation of these destroyers we fail to get the parasite which works against their operations."

"Spraying the trees is the only method I know of that can work successfully toward the destroying of them. This matter needs careful study, and the more one knows about the insect he is to destroy the better it is. Spraying is far more effective than painting the outside of the trees or in using patent remedies said to be beneficial in killing the insects. In spraying there is need of special implements, and a light spray is better than a steady stream from a common nozzle."

The speaker explained to some length the manner of spraying, and following his talk there was an informal discussion.

COLUMBUS FLORISTS' CLUB.

The regular meeting of this club took place Tuesday evening, April 17, at the bowling alleys of the Y. M. C. A. This was arranged in order that the larger part of the evening might be given to bowling. Our club has entered into the matter of forming a bowling club for the summer, with much enthusiasm; and at our practice games the attendance

has been good, and many good bowlers are developing. The committee who have had charge of the packaging and distributing of the penny packets of flower and vegetable seeds to the public school children have about completed their work. Our club's next meeting will be on Tuesday evening, May 1st.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

The Southern Floral Nursery Co., Fruitdale, Ala., submits for registration the following cannas:—

Mount Washington, white.

Mount Zion, very dwarf; red edged with yellow; a seedling of Mont Blanc. Henry George, a dwarf crimson bedder.

Telegraph, bright red; a little taller than Express.

Inman's Choice, dwarf red, edged and shaded bright golden yellow.

Britta, dwarf pink, with short, rounded leaves.

Golden Cluster, golden yellow in large, compact clusters.

Sensation, deep golden yellow spotted with red.

Uwanta, rich yellow with orange red spots.

Thelma, a seedling of Sec. Chabanne, but a more profuse bloomer and a little taller; color, more of a golden orange.

Pansy Read, red with light line of gold on margin; dwarf.

Crown of Gold, a seedling of Coronet, but a great improvement on that fine variety; a little taller and a deeper yellow.

Admiral Togo, yellow; strong, rapid grower.

Queen of Orange, golden orange.

The American Duchess, dwarf yellow specked with red.

Golden Dawn, golden yellow.

Royal Neighbor, purple bronze foliage, now two years old but never has bloomed.

Golden Express, a seedling of Express much like it but of a golden yellow color.

Amalgamated, a seedling of Express, having the dwarf habit of its parent and of a peculiar blend of red and copery yellow color.

Ohio, a giant bronze foliage with bright red flower; 8 to 9 feet high.

Buckeye, a tall green foliaged sort with a flower of golden yellow, striped and blotched with red in a very peculiar manner.

Dayton, yellow; seedling of Sam Trelease.

Nymphaea, light pink edged with cream; foliage dark green; a seedling of Hiawatha.

Leader, seedling of Mont Blanc; very dark rose pink of a shade new in cannas.

Royal Bronze, foliage purple bronze with long, upright leaves; dark crimson flowers.

Fairhope, an improvement upon the popular Chas. Henderson; a little taller than Henderson and a shade darker in color.

W. J. STEWART, Secretary.

MORRIS CO. (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

Our April meeting was well attended, Morristown came down with a full delegation. Wm. Duckham's theme "A Journey Abroad" was the drawing card. He gave a very interesting story of his trip of four months. His account of the Edinburgh show was interesting from more than one point of view. The city itself, through which he was piloted by the veteran grower, Peter Barr, he declared to be the finest he was ever in. In this town of something like 280,000 population, the paid admissions to the show were over 75,000. In chrysanthemums, he said, varieties which do but indifferently here under the best culture, were the best flowers he ever saw, and again varieties which are our pride were only medium or not seen at all. The conclusion he draws is that climatic conditions as well as culture play a large part in influencing the chrysanthemum. He had visited largely in Scotland and England many private places of note as well as the Kew Gardens and the great commercial places and many interesting and instructive notes were given of them. Some new things are added by this trip to his already noted collection. A hearty vote of thanks was given the speaker.

We had but one plant exhibit this month. It was a magnificent group of Spiræa Gladstone put up by Otto Koch, florist of the N. J. State Hospital, Morris Plains, N. J. The judges awarded a certificate of merit, declaring it to be the grandest lot of this they had ever seen. An invitation was extended by Mr. Koch to visit his place and view these and other Easter plants, which courtesy was accepted. Four new members were elected. Our next flower show will be held in Madison, N. J., November 1 and 2 next. The schedule is to be revised in committee for next meeting.

E. REAGAN.

NEWPORT HORTICULTURAL SOCIETY.

The schedule of premiums of the Newport Horticultural Society is about completed, and when issued (which it will soon be) it will be found to be much more attractive to intending exhibitors than the schedules of this society have recently been. More attention has been given to specimen plants and more liberal premiums offered. Groups of plants of various kinds are also more generously provided for. There are more classes than in any schedule hitherto prepared for one exhibition and there is more money available to meet the necessary cost of the increased number of classes. Dahlias are still given the prominent position their popularity continues to demand. Carpet bedding is supposed to be coming in to vogue again and to encourage this class of work or something akin to it, liberal premiums are offered for practical demonstrations of the effects that can be produced with sub-tropical bedding. Gardenias, carnations and American Beauty roses are scheduled to be awarded premiums exceeding in amount those of former years. The schedule

CIVIC IMPROVEMENT THROUGH PRIVATE ENTERPRISE.



The illustrations on this page show some of the good work being done by the National Cash Register Company on its buildings and grounds at Dayton, Ohio. The hard lines of factory buildings are softened and the work-rooms made cheerful by extensive tiers of portico and window boxes filled with drooping vines and bright blooming flowers. Climbing material is used profusely on the walls, fences and other objects that lack beauty in themselves, are clothed in luxuriant green and groups and belts of flowering shrubbery and trees are placed wherever they can be used to advantage to make beautiful and attractive the grounds about this vast group of factory buildings. That the influence

of this ever-present example of what may be done to add comfort and ele-



gance to the home surroundings is not lost on the thousands of employees and

others to whom its silent daily appeal is made is evidenced in the cleanliness and refinement everywhere apparent in this attractive little city. The visitors to Dayton next August are assured of an object lesson as impressive as useful and those who participate in the exhibition of out-door planting material for which preparations are now being made can depend upon having an attendance of appreciative local visitors who should make good customers for this class of material. Our frontispiece shows a bit of planting at Far Hills the beautiful estate of Mr. John H. Patterson, where the festivities connected with the president's reception will take place on the first evening of the convention.

will in a few days be in the hands of the printer, and when that individual is through with his work the secretary will gladly send a copy to whoever intimates a desire to have one.

HORTICULTURAL SOCIETY OF NEW YORK.

The Sixth Annual Exhibition of the Horticultural Society of New York will be held in the New York Botanical Garden on Wednesday and Thursday, May 9th and 10th, opening at one o'clock on Wednesday. The schedule for the coming exhibition is a repeat of that which was in force last year when a very successful exhibition resulted. The schedule is divided in 26 classes, which are in two sections, one open to all and the other excluding all who grow plants or flowers for sale. The classes are duplicated throughout.

The printed schedule will be issued in the course of a few days and copies may be obtained from Leonard Barron, Secretary.

DETROIT FLORIST CLUB.

The Detroit Florists held their regular meeting on the 18th with a fairly good attendance. The Easter business was brought in discussion rather freely, most every one having some experiences to relate on both pleasant and unpleasant incidents during the week.

One member in addressing the club stated that the actual profits on the

Easter business does not pay for the gray hairs it brings. The sale of potted plants was shown to be extra large, most every one selling to the limit. Cut flowers were much less in want, as compared with former years. Carnations and roses moved rather slowly. Violets were good for their time and sold better than expected by every one. Several growers complained that violets are put up too elaborate as regards boxes, ribbons, etc., with the expense falling on them, while the retailers claim this induces a better sale of such by keeping up-to-date. A motion was seconded thanking Mr. Dilger for use of the Michigan Cut Flower Exchange, in which the club held the recent flower show.

A unanimous vote was passed congratulating the Mayor of Detroit and the city on the appointment of Philip Breitmeyer as Park Commissioner.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The annual banquet of this organization, at Horticultural Hall on the evening of April 25, was a memorable event for all who participated and there were three hundred of them, members with their wives and daughters. The banquet was spread in the great hall, and with the profuse decorations of plants and flowers a beautiful and inspiring spectacle. Flowers had been donated with unstinted generosity, and the tables were

fairly covered with them—in vases and spread over the cloth. President Wheeler held a reception in the lecture hall while the orchestra played, preceding the banquet, which began at 7 p. m.

There was no speaking, but a fine entertainment followed the banquet, the Warren Mandolin Club, Brookline Male Quartette and several talented soloists contributing music and recitations. After that dancing began in the lecture hall, and the younger members—also some of the older ones—tripped merrily until 11.30.

Fred E. Palmer was chairman of the reception committee of seven, David Lumsden, Duncan Finlayson and Wm. Sim were the decoration committee, and Peter Miller acted as floor director, with five very distinguished appearing aids. No committee ever did their duty more enthusiastically. President Wheeler was here, there and everywhere. All in anyway connected with the management of the affair are to be congratulated on the splendid success achieved.

The Kentucky Society of Florists will hold its regular monthly meeting the day night, May 1st.

The exhibitor of the superb anthuriums, shown at the last meeting of the Gardeners' and Florists' Club of Boston, was Thomas Waldie, of Beverly, Mass.

MECHANICAL WATERING EXPLAINED.

In answer to Robert McGorum's questions, etc. in HORTICULTURE page 494, April 14th, will say, that I do not wish to be quoted as advising the use of mechanical watering in a private place where miscellaneous plants are on display; possibly blooming and foliage plants in one grand conglomeration; except, possibly, as an auxiliary to the hose or can. I also understand that mechanical watering is in opposition to much that we have accepted as necessary to successfully grow plants under glass, and I wish to have it understood that we must modify conditions to a certain extent so that it can be successfully applied. The most advanced places, at the present time, do not grow a mixture of all different kinds of plants in one house, but give whole houses or sections of houses, to the growing of one kind of stock. These are the places where a watering system is practical, as an even amount of water given the full length of the house will be evenly absorbed by the plants; providing, of course, that the ventilation and heating pipes are the same throughout.

Let it be understood that where heating pipes are in closer proximity to one part of the bench than to the other, thereby producing dry spots, these conditions should be remedied, also the ventilation should be studied, that the effect of the air will be the same throughout the full length of the house. Conditions being equal, the necessity for water also becomes equal, and the result is simply this: that a whole bench of plants can be watered or syringed, just as quickly as one plant can be cared for with the hose or can. I am aware that some plants will be injured by spraying from overhead, and for this kind of stock we must place our system underneath the plants, so that we can water them from underneath. Geraniums, for instance, where the flowers will be injured after they begin to bloom, can be watered from underneath, by having lines of system placed just above the pots, close enough together so that the water is evenly distributed. With reference to watering shelves, will say, that if Mr. McGorum has one the full length of his house, he would find a sheet of spray the full length of house just above his shelf would be very convenient. By running line over rows of Boston fern baskets the full length of house, by simply pulling a lever a sheet of water is produced the full length of house and the entire row watered just as quickly as one plant can be watered with the hose, and with only one-half as much effort. I now have houses where I water ten rows of Boston ferns side by side hanging from rafters of houses with one line of system just over the center of these rows of Boston ferns.

About seedlings in cold frames will say; that a line of system just in the center of frame underneath the sash will water the frame instantly, and without the necessity of lifting up the sash the spray can be directed to any part of frame desired, that is, one side or the other, always, of course, the full length of system

With reference to growing pot lilies or pot roses for Easter trade, will say, that these can be watered from overhead or from underneath, just as the operator may desire, by having the system placed both overhead and underneath the foliage. It is, of course, understood that all plants will receive the same amount of water, and that the grower must use just as much judgment in using a system of this kind as in any other mode of watering. The drainage must be watched and kept open, or the pots and plants potted as near alike as possible, and everything done to equalize the conditions as much as possible.

Mr. McGorum's offer to put up a line of system in one of his houses is certainly very kind of him, and I hope to be able to take advantage of his offer. I am thoroughly in accord with Mr. McGorum's advice to keep cool and talk over our ideas in a friendly way and therefore refrain from answering anything that does not pertain to question in view.

Although I have very little time to put into this mechanical watering business, as my duties to the Geo. Wittbold Co. take up my entire time, I will be glad to answer any questions the readers of HORTICULTURE may ask, and will advise and give my honest opinion where mechanical watering would be adaptable, if given the facts in the case.

Let us not ridicule or criticise, but ask your questions for a purpose, and I will be glad to answer same.

Thanking the Editor, and readers of HORTICULTURE, I am,

Yours very truly,

LOUIS WITTBOLD.

MORE ABOUT MECHANICAL WATERING.

"A child's among ye takin' notes
An' fatch he'll plant 'em."

In looking over last week's HORTICULTURE I see the latest convert to the mechanical watering idea is Mr. McHutchison. It's wonderful what old Time does accomplish. We all know Mr. McHutchison to be a globe trotter, and a genial gentleman, but his ideas have taken a sudden change. "I wonder why." Some time ago while on a visit here, I suggested it would be a good thing if there were more hose used on the other side, having worked at only one place where a hose was in use. He jumped on me, and said he was glad they didn't, for in using the can it gave employment to an extra number of men. Now he jumps on the English gardener, and calls him old-fashioned, the very person he upheld not long ago. "We are," he says, "to see it in our midst." I wonder if he has converted his father-in-law, Mr. Edgar. If it is so and the latter gentleman takes the conversion seriously, and sells every hose and can he has on the place to the junkman, after having installed the mechanical man, growing as good product as formerly, I will say the mechanical man is a wonder; the rush for the apparatus will be great. Numbers of men will be looking for different employment, and the payrolls of the poor florist will be perceptibly decreased. Get it in quick, Mac, I will go over and take a peek at it.

Your other correspondent writes a very nice letter, having used it a few months, growing vegetables, but wouldn't monkey with a house of Farleyense or Lorraine. What we would like is a true statement from a carnation grower, a private gardener and a rose grower—men who have a reputation of growing good products—that they have used the machine for one year and find it better, or just as good as the can or hose, growing as good stock and keeping the plants in as healthy condition; then, and not till then, we will be getting information. This will be the best test that can be made, as some persons are so much carried away with something new that they forget themselves and give statements that sometimes cannot be backed up with cold facts. I think that the hose and the can manufacturers will remain in the business for some time yet until they or we get facts that will make them stop their production.

R. T. MCGORUM.

A SCHOOL GARDEN INSTITUTE.

The Massachusetts Agricultural College held a "school garden institute" at Horticultural Hall, Boston, April 21, when the various aspects were discussed.

F. A. Waugh, professor of horticulture and landscape gardening in the Massachusetts Agricultural College, presided.

Henry S. Adams spoke on "How Successful School Gardens Are Managed." He said that one reason for the difficulty in establishing them is that many suburban towns do not see any necessity for such work.

Mr. Waugh spoke on the "Selection of Sites and Preparation of Soils," and M. A. Blake, instructor in horticulture at the Massachusetts Agricultural College, gave a practical talk on the "Cultivation and Care of Soil, and the Care and Use of Tools."

Herbert D. Hemenway, director of school gardens in Hartford, Conn., urged that individual gardens should be apportioned out to the pupils. There were other short addresses.

About 100 school teachers and other persons interested in horticulture were present, and manifested great interest in the addresses.

The general opinion was that school gardens are a good thing, but that proper methods for their establishment and care are not always easy to find.

AN OUTDOOR CLASS.

J. G. Jack began, on April 21, his 15th year of informal outdoor talks on plants, trees and shrubs, in the Arnold Arboretum, Boston, with a class of 28 women and three men.

Different botanical groups will be examined. No technical knowledge or special preparation is required in order to join the class, as the instruction is intended to be simple in character, affording opportunities for questions and answers.

The class will meet each Saturday morning at 10 o'clock, continuing until June 23.

I congratulate you on the excellent issue you turn out every week, and am pleased to see that it has become quite a popular paper.—H. J.

The Cottage Gardens

Contain the finest assortment of selected specimen Evergreen, Deciduous Trees and Shrubs procurable, and its Landscape Department is at your service in arranging them. Price list ready now. Has tables of the best herbaceous plants, giving common and botanical names, height, color and season of bloom. Sent free. All inquiries cheerfully answered.

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Twelve leading varieties of Tree Roses. Many are planting Tree Roses.

Ten varieties of Hybrid Rhododendrons, all sizes and prices.

Pyramidal and Tree Boxwood, all sizes. Tree Azaleas. Old Vines.

Hydrangea P. G. Four years old, elegant stock.

Hydrangea P. G. Trees eight years old.

Shrubs, all kinds, two to eight feet. Fruit Trees, Berry Bushes, etc.

Austrian and Scotch Pines, four to eight feet; nowhere excelled.

Retinosporas in variety, two to seven feet.

Colorado Blues, two feet, three feet, and three and one-half feet. Pure Kosteri.

Ornamental and Shade Trees.

In fact, most everything. WE FILL LATE ORDERS. If you want some good stock you had better communicate with us, no matter what it is in the Nursery line.

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all in first class condition, at prices less than cost, to reduce larger stocks than we need for our regular trade. This is an exceptional opportunity to secure reliable stock for planting out, either for stocking up or filling orders. Our Perennials are all field-grown (except where noted). Florists and others know their superiority over small pot plants. Prices are quoted F. O. B. Sparkill, N. Y. Not cash less 5 per cent. when cash accompanies orders. Not less than 6 of any one variety sold at the dozen rate, 25 at the 100 rate, and 250 at the 1000 rate. (Numericals indicate size of pot.)

	Doz.	100		Doz.	100		Doz.	100
Achillea, The Pearl, 3 in. P.	50	\$3.00	Paeonies Officinalis, Mutabilis	1.00	12.00	English Ivies, field grown Vines		
Agrostemma Cotonaria	50	3.50	Paeonies Officinalis, Chineseis,			2 1/2 to 3 feet long:		
Anemone Whirlwind, 3 in. P.	50	3.00	mixed pink vars.	1.00	8.00	1st Grade, extra heavy	.75	5.00
Anemone Queen Charlotte, 3			Paeonies Festiva Alba	1.60	12.00	2nd Grade, Heavy	.60	4.00
in. P.	60	4.50	Paeonies Latus, Silvery Rose	1.60	12.00	Established 3 in. pots	.85	6.50
Aquilegia Canadense	50	3.50	Paeonies Gustav Guerin	2.00	15.00	(Special price per 1,000 lots)		
Aquilegia Vulgaris	50	3.50	Paeonies Duke of Wellington	2.00	15.00	ROSES—Strong 2-year-old, Budded, first-		
Aquilegia Vulgaris Fl. Pl.	60	4.00	Paeonies Sapho	1.60	12.00	class condition, in bundles of 10		
Aquilegia Chrysanth. Alba	50	3.50	Papaver Orientale, Named varie-			\$1.00; \$8.00 per 100; \$75.00 per 1,000;		
Aquilegia Skinneri	50	4.00	ties, 2 in. P.	.75	5.00	Anna Alexioff, Boule de Nieve, Baron-		
Arabis Alpina	50	3.00	Penstemon Bar. Torreyi	.60	4.00	ess, Rothschild, Cheshunt Hybrid, Captain		
Armeria Maritima Splendens	50	4.00	Penstemon, in six named varie-			Christy, Duke of Edinburgh, Fisher Holmes,		
Asters Hardy, in 25 Best Named			ties, 3 in. P.	.75	5.00	General Jacquemont, John Hopper, Jules		
varieties. List of varieties on			Physostegia Virginica	.50	3.50	Margottin, La France, Mabel Morrison,		
application	50	4.00	Platycodon Grand	.60	4.00	Magna Charta, Margaret Dickson, Mad:		
Baptisia Australis	50	3.50	Platycodon Mairesii	.60	4.00	Gabriel Luizot, Mrs. John Laing, Mad:		
Bellis Perennis in variety, 2 1/2			Platycodon Mairesii, Alba	.60	4.00	Planter, Perles des Blancs Paeonia, Paul		
in. P.	50	3.50	PHLOX, Strong field grown			Neyron, Victor Verdier.		
Campanula Media, Blue and			roots. Besides the following			HYBRID TEAS AND OTHERS:		
White	50	3.50	we have upwards of thirty			10 100		
Calliphoe Involucrata, 3 in. P.	50	4.00	other sorts, we can offer in			Hermosa, Clothilde Souper and		
Cephalaria Tartaria	60	4.00	3 in. pots. List on applica-			Leuchstern	1.25	10.00
Chelone Lyoni	60	4.00	tion. 45.00 M.			Moss Roses, Blanche Moreau and		
Chrysanthemum Maximum, Tri-			Avenir, Route de Feu, Cyclon,			Chapeau de Napoleon	1.25	10.00
umph	50	3.50	Dr. Hornby, Clefleur, Hero-			RAMBLERS, CLIMBING AND TRAIN-		
Chrysanthemum Shasta Daisy	50	3.50	ine, Indian Chief, James Gal-			ING ROSES:		
Hardy Pompon, in 12 Best			loway, Jeanne D'arc, Lady			Crimson Ramblers, Extra		
Named varieties, 2 1/2 in. P.	50	2.50	Musgrave, Miss Lungard, Mrs.			Strong Canes, 4 ft.	1.25	10.00
Clematis Davidiana, 25.00 M.	50	3.00	E. E. Jenkins, Nana Coeru-			Crimson Ramblers, Very Strong		
Coleopsis Lanceolata, 15.00 M.	30	2.00	lea, Tourmase.			Canes, 3 ft.	1.00	8.00
Delphinium Chimonis, 3 in. P.	50	3.50	PHLOX Subulata, Rosea, and			Crimson Ramblers, Strong		
Delphinium Formosum	50	3.00	Lilacina, 30.00 M.	50	3.50	Canes, 2 ft.	.75	5.00
Delphinium Coelestinum	85	6.50	PHLOX Amena	60	4.00	White, Pink and Yellow Ram-		
Delphinium Elatum Hybridum	75	5.00	Polygonatum Majus	85	6.50	blers, 4 to 6 ft.	1.00	8.00
Delphinium Argosy, Light Blue	85	6.50	Plumbago Lupinata	85	6.50	Paul's Carmine Pillar, Extra		
Dianthus Barbatus, 25.00 M.	50	3.00	Polygonum Cupidatum	75	5.00	Strong Canes	1.25	10.00
Dianthus Plumarius	50	3.00	Prunella Elatior (Polyanthus)			Wichuraiana Hybrids, in 5 vars.		
Dianthus Delicatus	75	5.00	Primrose 2 1/2 inches P.	50	3.50	Extra Strong	1.25	10.00
Dianthus White Reserve	75	5.00	Pyrethrum Hybridum Single,			FLOWERING SHRUBS:		
Dianthus Hybrids	75	5.00	Roseum, 2 1/2 inches P.	75	5.00	Doz. 100		
Digitalis, Monstrosa, 2 in. P.	75	5.00	Pyrethrum Roseum Double, in			Albeas, Strong plants, 3 to 4		
Echinops Rito	75	5.00	9 named varieties, 3 inch P.	1.75	12.00	ft. high. Coet, Plena, Totus		
Eupatorium Aceratoides	50	3.50	Rudbeckia Annua Glory	75	5.00	Albus, Celeste, Jeane D'Arc,		
Eryngium Amoebaeformis	50	3.50	Rudbeckia Fulgida, Nowmanii,			Boule de Feu, Violaacea, Rosea		
Erigeron Oliverian Plan	75	5.00	and Submontana	60	4.00	Plena	1.00	7.50
Euphorbia Corollata	50	3.00	Rudbeckia Golden Glow, Divi-			Berberis Thunbergii, 1 1/2 ft.	.75	5.00
Funkia Albo Marginata, 2.00			sions, \$7.50 per M.			Berberis Thunbergii, Strong,		
M.	50	3.00	Rudbeckia Golden Glow clumps,			1 1/2 to 2 ft.	1.00	7.50
Funkia Aurea Varieg, 25.00 M.	50	3.00	Salvia Arguta	75	4.50	Extra strong, 2 ft.	1.50	10.00
Funkia Undulata Media Plena,			Salvia Patens	60	4.00	Berberis Purpurea, 1 1/2 to 2		
30.00 M.	60	4.00	Santolina Incana, 3 in. P.	50	3.00	ft. Strong	1.00	7.50
Geranium Sangineum, Albina	60	4.00	Sedum Canadense, 40.00 M.	75	5.00	Hydrangea Oaklea, 5 in. p.d.s.	1.00	7.50
Gillenia Trifoliata	75	5.00	Sedum Obovatum	75	5.00	Deutzia Gracilis, 1 year field-		
Geum Atrosanguineum, 2 1/2			Sedum Maximum	75	5.00	grown from cuttings, 6 to		
in. P.	50	3.50	Sedum Maximowiczii	75	5.00	8 in. high, \$12.50 per M.		1.50
Gypsophila Mon. Response	75	5.00	Sedum Sp. 4.00	75	5.00	Deutzia Gracilis, 18 ft. 24 in.		
GRASSES, Eulalia Japonica	50	3.50	Sedum Pol. bellum	60	4.00	high, Imported clumps, field		
GRASSES, Eulalia Gracilima	50	3.50	Shorta Calatolida	1.25	10.00	grown	.85	6.50
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in. P.	85	6.50	SPITRAEA Arbus and Pamel-			Lilacs, Large Imported Pot-		
GRASSES, Gynandrium Arg. Ele-			ta	75	5.00	grown Plants, Single and		
gatus 5 in. P.	3.00	25.00	SPITRAEA Elgans, Camaria,			Double, White	3.00	20.00
Helianthus, in 10 best vars.	60	4.00	SPITRAEA Compacta, Multiflora,			Field grown, Persia, and Per-		
Helianthus, in 10 best vars.			Asubides, Flora, Supera,			sia Alba, 2 1/2 ft.	.85	6.50
Helianthus, in 10 best vars.			Japona	50	3.50	Philadelphus, Coron, 2 1/2 ft.	.85	6.50
Helianthus, in 10 best vars.			Stachys Latifolia, 3 in. P.	60	4.00	Spiraea, R. Billiardii, Anthony		
Helianthus, in 10 best vars.			Stachys Latifolia, 3 in. P.	75	5.00	Waterer, Rayson, Thunbergii,		
Helianthus, in 10 best vars.			TRITOMAS R. C. Alantini,			extra strong, 3 to 4 ft.	.85	6.50
Helianthus, in 10 best vars.			M. A. Quora, Tukin, Rates,			Wiegela, in variety, 3-4 ft.	1.00	7.50
Helianthus, in 10 best vars.			and Nobilis, 2 1/2 in. P.	1.25	10.00	BOX TREES, Fine Specimens well fur-		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			nished, Pyramids, 3 to 4 ft., \$15.00		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			to \$20 each Round or Bush Form, 3 ft.,		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			\$15.00 to \$20.00.		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			EVERGREENS, Fine Specimen trees.		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			Abies Nobilis, Glauca, 2 1/2 ft., \$2.50		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			each; Abies Nordmanniana, 1 1/2 ft., \$2.50;		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			2 ft., \$2.50; 3 ft., \$12.50 each. Picea Al-		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			cockiana, 2 1/2 ft., \$2.50.		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			EVERGREENS, Special price on appli-		
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Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			alis, P. Pungens, Glauca, Koster, Sci-		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			adapivus, Verticillata, Pines, Cedars,		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			Retinospora Obtusa, Gracilis, Thuja		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			Standishii, Thuyopsis Dolabrata.		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			DAHLIAS, We have a surplus of the		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			following varieties: SHOW and DECORA-		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			TIVE DAHLIAS, strong field roots,		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			which we offer until sold at \$5.00 per		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			doz; \$8.50 per 100. Show and Fancy		
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Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			Floral Park Jewel, Frank Smith, Glow-		
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Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			Shearer, Menhedy Beauty, Oyster Bay,		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			Pendula, Prince Bismarck, Queen Vic-		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			toria, Red Hester, White Swan.		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			Decorative Varieties: Antium, Clifford		
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Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			Oban, Orange King.		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			Pompeo Varieties: Etan, Golden Perle,		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			Prince Charming, Vivid.		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			Double Mixed Dahlias, Whole field roots,		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			\$2.00 per 1,000; \$2.50 per 100; 30c. per		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			doz.		
Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			Glaucous Augusta, first size Bulbs, \$12.00		
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Helianthus, in 10 best vars.			TRITOMAS, R. C. Alantini,			Planting Stock, all flowering size, \$5.00		
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PUBLICATIONS RECEIVED.

Southern Floral Nursery Co., Fruitdale, Ala. Trade price list of cannas, gardenias, roses, etc.

Bulletin No. 186 of the Agricultural Experiment Station at Urbana, Ill., by Charles S. Crandall, is devoted to the relative merits of liquid and dust applications in spraying apple trees.

The Fern Bulletin, Vol. XIV, No. 2, published by Willard N. Clute & Company, contains interesting scientific notes regarding American ferns. Illustrated with a drawing of Polypodium piloselloides.

Bulletin No. 194 of the N. J. Agricultural Experiment Station, at New Brunswick, N. J., is a very comprehensive work on the subject of spraying. It covers the entire subject in a concise and very practical manner.

Early Flowering Chrysanthemums issued by the National Chrysanthemum Society, C. Harman Payne, secretary, London, England, is a bound volume of thirty pages, containing a report of the proceedings of the conference on early flowering chrysanthemums, held at the Crystal Palace, October 4, 1905, and a number of valuable papers which were read at the meeting. Among the latter are The History of Early Flowering Chrysanthemums by C. Harman Payne, Early Flowering Chrysanthemums for Market by Eric F. Such, Early Flowering Chrysanthemums for Town Gardens, by J. W. Moorman, and by E. F. Hawes, Early Flowering Chrysanthemums for the Garden, by D. B. Crane, and Decorative Value of Early Flowering Chrysanthemums, by George Gordon.

SEED TRADE.

The Iowa Seed Company have bought the business of the Morris-Blair Floral Company, at 308 Seventh street, Des Moines, Ia., and contemplate changes that will make this a model florist establishment. The Iowa Seed Company already have twenty-four greenhouses, and the property now acquired will make it the largest operating floral company in Central Iowa. Since opening the first cut flower store in Des Moines twenty-two years ago, Charles N. Page has made rapid advances, and in his connection with the Iowa Seed Company has built up an enviable business for the firm.

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Richmond. \$25.00 per 100; \$200.00 per 1,000.

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The above varieties on their own roots, from 2½ inch pots, very fine plants, reported from 2 inch pots.

Killarney. \$10.00 per 100; \$90.00 per 1,000.

Richmond. \$15.00 per 100; \$120.00 per 1,000.

Wellsville. \$10.00 per 100; \$90.00 per 1,000.

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Flaman Cochet. A magnificent pink rose of Meimet type, and the best of our out door bedders, \$15.00 per 100.

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American Beauty. On own roots, from 2½ inch pots, \$8.00 per 100; \$75.00 per 1,000. 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and June deliveries.

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purest white, earliest moon vine in existence. Mr. A. W. Smith is the world-wide reputation of being the originator of the best moon vine raised in the country. **GODFREY ASCMANN** of 112 Onondaga Street, Buffalo, is the wholesale grower for them. Has about 15,000 in ready 2½ in. pots, \$1.50 per 100. Cash with order.

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Moss 15 lb Bale, \$1.25; 3 Bales, \$3.50; 6 Bales, \$5.00; Pkg Moss, 10 Bales, \$7.50. Poles 2 inch butt 8 feet long, \$15.00 per 100; 2½ inch butt 15 ft, 12 feet long, \$2.50 per 1000. Cash with order.

H. R. AKERS, Chatsworth, N. J.

OBITUARY.

John McDougall died at his home in Norwich, Conn., on April 18, aged 66 years.

Paul T. Berg of Norwalk, Conn., died at his home, 65 Woodward avenue, on April 16. He had been connected with the Smith greenhouses for many years as superintendent. A widow and two sons survive him.

IN MEMORIAM.

Count Kerchove de Denterghem.

On several occasions recently we have referred to the serious losses to European horticulture by the death of various well known men. Belgium in particular has been a severe sufferer and in losing Count Oswald de Kerchove de Denterghem the Royal Agricultural and Botanical Society of Ghent, of which he had been for so long the honored president, will be placed in a position of considerable difficulty to find a man worthy of occupying the vacant place.

The Count Kerchove de Denterghem was a familiar figure to all European horticulturists of any note. He was a man of imposing stature, a genial courteous gentleman whom we well remember meeting for the first time nearly seventeen years ago at Ghent.

Like his colleagues the late M. de Meulenaere and M. Ernest Fierens, both members of the same society, he was a lawyer by profession and an amateur gardener of world wide repute. As an author and contributor to the horticultural press he was also well known as a competent authority on the matter upon which he used to write. Every visitor to the great International Horticultural Shows at Ghent will remember the Count's warm welcome and his invariable urbanity. He spoke English, among his many other accomplishments, quite well, and has often received visitors from this side of the Channel in a way not to be easily forgotten.

He had filled many important positions in his own country and his death so entirely unexpected to those outside his own immediate circle of friends will create a great void, more especially at the next Quinquennial show at Ghent for which preparations are now in active operation.

Count Kerchove was born in 1844 and died on the 20th March last being in his 62nd year. He was an officer of

the Order of Leopold and held other decorations.

C. HARMAN PAYNE.

NEWS NOTES.

Patrick Sampson, of 101 Twenty-first street, Brooklyn, N. Y., has been missing from his home since April 14.

J. J. Lampert of Xenia, O., and his sons, have formed a stock company and will carry on a wholesale florist business.

James E. Andrews has purchased the Clarence E. Barker property in Billerica, Mass., and will carry on a florists' business.

Robert Dougherty of Natick, Mass., has purchased the greenhouse and land of Mrs. A. C. Pond at W. Medway, and has taken possession.

W. H. Waite, formerly located at Castlewall, Elberon, N. J., has been appointed superintendent on Senator Dryden's estate at Bernardsville, N. J.

Reed & Keller, with characteristic enterprise, have patented a device for holding cycas leaves in position in the making of cycas bunches in florists' funeral work. It is worth looking into. Write to them at 146-148 West 25th street, New York.

PRIZE PRIMULA SEEDS SOW NOW.

Will make splendid plants in bloom for FALL sales.

	Trade Pk.	Trade Pkt.
Primula sinensis, pure White, \$2.00	\$1.00	
" " Brillant Red, .50	1.00	
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European Mixture, .70 1.00

This is the finest mixture procurable composed of the choicest separate colors on y.

Primula obconica, Red, .50

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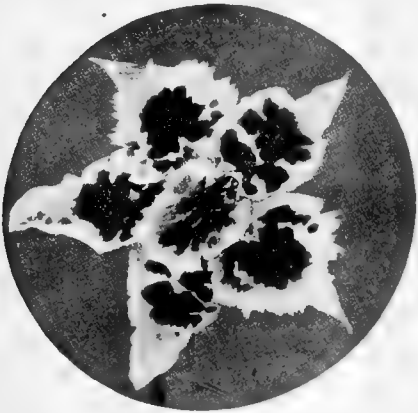
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**ODONTOGLOSSUM CRISPUM PIT-
TIANUM.**

The cut shows an individual flower of *Odontoglossum crispum Pittianum*, reduced to one-half its diameter. This is the variety which brought the record price of \$5750.00 at a recent orchid sale in London, the purchaser being Sander & Son of St. Albans. This beautiful *Odontoglossum* has twice won the gold medal at Manchester and is called the best blotched *Crispum* in existence. The flowers are described as white, slightly tinged with rose, the sepals and petals being heavily blotched with red-brown, the reverse side heavily tinged with purple. The labellum has a yellow crest marked with reddish lines, in front of which are brown spots on a white ground. The specimen sold bore three bulbs, two with leaves and young break.

PROGRESS IN BALTIMORE.

For four years the Baltimore people have had no flower show. They used to have good shows, but the deficits discouraged them. Now they have taken courage once more and are to have a show the coming fall on new lines. At the monthly meeting of the Gardeners' Club, held on the 23rd inst., a guarantee fund of ample dimensions was promptly subscribed and competent committees appointed to push the enterprise forward to a successful conclusion. Encouraging words are spoken by Fred. J. Michell and other visitors from Philadelphia; the members who spoke evinced great enthusiasm which argues well for the success of the venture. Subscriptions to the premium list were opened as soon as the guarantee fund was assured and a good beginning made. President W. Lehr appointed the following committee to take general charge of the show: George Morrison, chairman; Albert Feidler, Fred. C. Bauer, Jno. J. Perry and James Glass. A spirited debate took place at the same meeting as to who had the best of it, "The Grower or the Retailer." The orators who distin-

guished themselves were Fred Burger in the role of diplomatist, Isaac H. Moss as humorist, and Fred C. Bauer as philosopher. Thos. Patterson was good, but one sided; Phil Walsh was undecided, and Jno. Perry, as wholesaler, tried his best to squirm out, but it was hopeless. Chas. Seybold made a good vice-chairman while President Lehr was out on committee duty, and contributed considerably to the enthusiasm of the meeting. The Maryland Horticultural Society is to be asked to combine its show with the Baltimore exhibition. A suitable hall has already been promised, free of charge, and all members of the club are to be enlisted as volunteers in the sale of tickets, and prizes are offered for the best workers in that connection. The press is to be well supplied with reading matter, tickets and bouquets. The school children are to be admitted free in the morning and many other things done to make the show a success.

Gov. Herrick violet has rapidly risen to a leading position in the Boston cut flower market. Its unrivalled color is a strong point, and another quality which is much appreciated is its disposition to continue blooming until late in the spring.

The disappearance of Wm. Woods, of Lenox, Mass., mentioned in our issue of last week, proves to have been a case of suicide, his body having been found in a pond nearby.

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Manufacturers of FLORISTS' LETTERS

This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.
Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.
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High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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Western Headquarters for Choice Orchids
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IN ANY QUANTITY \$6.00 PER CASE

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO April 24		ST. LOUIS April 16		PHILA. April 9		BOSTON April 26	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	35.00	to 40.00	30.00	to 35.00	30.00	to 40.00	12.00	to 15.00
" Extra.	25.00	to 30.00	20.00	to 25.00	20.00	to 25.00	8.00	to 10.00
" No. 1.	8.00	to 10.00	10.00	to 15.00	10.00	to 12.50	4.00	to 6.00
" Lower grades.	4.00	to 6.00	4.00	to 5.00	4.00	to 8.00	1.00	to 3.00
Bride & Maid—Fan. & Sp.	10.00	to 12.00	10.00	to 12.50	10.00	to 12.00	5.00	to 6.00
" Extra.	10.00	to 12.00	6.00	to 8.00	8.00	to 10.00	3.00	to 4.00
" No. 1 and Lower gr.	3.00	to 5.00	4.00	to 5.00	2.00	to 6.00	1.00	to 2.00
Liberty, Fancy	10.00	to 12.00	10.00	to 12.00	15.00	to 20.00	6.00	to 8.00
" Ordinary	6.00	to 8.00	10.00	to 12.00	8.00	to 10.00	1.00	to 4.00
Richmond, Fancy	10.00	to 12.00	10.00	to 12.50	15.00	to 20.00	8.00	to 10.00
" Ordinary	6.00	to 8.00	10.00	to 12.00	8.00	to 10.00	4.00	to 6.00
Golden Gate, Fancy	8.00	to 10.00	10.00	to 12.50	8.00	to 10.00	4.00	to 6.00
" Ordinary	4.00	to 6.00	4.00	to 8.00	4.00	to 6.00	1.00	to 2.00
Chatenau, Fancy	8.00	to 10.00	10.00	to 12.50	12.00	to 15.00	4.00	to 6.00
" Ordinary	4.00	to 6.00	6.00	to 8.00	4.00	to 6.00	1.00	to 2.00
CARNATIONS								
Fancy	2.00	to 3.00	4.00	to 5.00	4.00	to 5.00	1.00	to 1.50
Ordinary	1.00	to 1.50	1.50	to 2.00	2.00	to 3.00	.50	to .75
MISCELLANEOUS								
Cattleyas	.....	to .....	.....	to .....	.....	to 60.00	40.00	to 50.00
Lilies	1.50	to 2.00	10.00	to 12.50	10.00	to 12.50	5.00	to 8.00
Callas	1.50	to 2.00	10.00	to 12.50	12.50	to 15.00	5.00	to 8.00
Lily of the Valley	5.00	to 4.00	2.00	to	3.00	to 4.00	2.00	to 4.00
Violets	.50	to 1.00	.25	to .50	.75	to 1.00	.20	to .50
Tulips	2.00	to 3.00	3.00	to 4.00	3.00	to 4.00	1.00	to 2.00
Sweet Peas	.50	to 1.00	.....	to .....	.75	to 1.50	.35	to .50
Mignonette	.....	to	4.00	to 5.00	2.00	to 3.00	.....	to 1.00
Adiantum Cuneatum	.75	to 1.00	.....	to 1.00	.75	to 1.00	.75	to 1.00
" Croweanum	.....	to .....	.....	to .....	.....	to 1.50	.....	to 1.50
Smilax	10.00	to 15.00	12.00	to 15.00	15.00	to 20.00	12.00	to 16.00
Asparagus Plumosus, strings	35.00	to 50.00	25.00	to 50.00	.....	to 50.00	.....	to 50.00
" " & Sprenger bunches	35.00	to 50.00	25.00	to 50.00	35.00	to 50.00	20.00	to 50.00
Lilacs per 100 bunches	to	to 75.00	to 50.00	to

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Roses and
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EVERYTHING SEASONABLE IN
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Store Closes 8 P. M.

VICTORY

We do not need to advertise Victory aggressively any longer. We are making prompt deliveries of Cuttings daily and are giving universal satisfaction. ENOUGH SAID!

CUT FLOWER MARKET REPORTS

BOSTON As our price quotations indicate there has been a big downfall in flower values in this market since last week, and the initiated will easily imagine the truth of which this is the consequence, that the market is overloaded with material for which there is no outlet at present. It seems to be a case of over-production rather than of under-demand, as all the retail stores have a busy aspect and there is no complaint from those dealing directly with the public as to bad business. The retailer can make money easily under prevailing conditions.

The market has been **CINCINNATI** badly over-stocked with cut flowers ever since Easter. Business has been fairly good, but the supply has been something enormous. Roses, carnations, violets, sweet peas and bulbous stock in variety continue to arrive in such quantities that the ice boxes are taxed to their utmost capacity. The weather has been warm and the bulk of the stock is soft and unsalable the day after it is cut. Harrisii lilies and lily of the valley are about the only flowers in demand and of which there is not an over-supply. In consequence prices have taken an awful drop on everything. This week, however, promises to be somewhat better as the supply of bulbous stock is about exhausted. Violets are getting small and will soon be out of the market. Several large weddings are booked for the near future and business promises to be good for some time to come. The street fakirs are in their glory now and can be seen on every downtown corner selling stuff at prices which cause us to wonder what the grower gets.

COLUMBUS We all expected after the splendid business that was done Easter, that there would be a little trade for awhile, but have been most agreeably disappointed. The past week has been one of the best we have had this year. Prices, of course, have fallen back to where they were before Easter week; in some stock, especially carnations, not quite so low perhaps. Carnations, although in large supply, have been in such good demand that fifty cents a dozen is the lowest we have been obliged to sell them since Easter. Other stock in good supply and selling freely at usual rates. Had the terrible San Francisco calamity not occurred, there is no question but that business would be very brisk; this fearful thing has cast a sadness over the whole city, and many of the craft will be most anxious until they receive word from their relatives and friends who were in that city.

DETROIT The business here since Easter has fallen off some. We find the stock at the commission houses getting back to itself again and the prices reasonable. Roses are becoming plentiful along with carnations and violets. Sweet peas are being sold more regularly of late and are of good quality. Spring weddings are beginning to take effect and business will soon be in full swing again.

LOUISVILLE Business conditions the previous week were generally a little slow in the way of sales, while stock usually was plentiful. Carnations found very good demand, the quality and supply being satisfactory. Roses were in great supply and of satisfactory quality, the demand being good. Lilies of the valley, sweet peas, migno-

nette and forget-me-nots, found their demand, with the supply usually adequate. Violets and bulbous stock are nearly at an end. Green goods can be had in fair supply.

PHILADELPHIA The condition of the cut flower market last week was not nearly so satisfactory the latter as it was the early part of the week; the warm weather coming on the latter part of the week hurt things very much and brought an immense quantity of flowers which glutted the market on almost all kinds. Stock was generally good—did not seem to be affected by the warm weather. Beauties moved in fair shape in fact rather better than some of the other roses, considering the existing conditions.

There were quite a few weddings in the early part of the week which of course helped business wonderfully. Prices continue dropping on all classes of flowers; this was particularly noticeable on carnations which were quite a little more plentiful. Tea roses also suffered in the same way; possibly more so than the carnations. Saturday, which is generally considered one of our best days, was a great disappointment all around, a quantity of cut flowers being carried over into the next week.

BUSINESS CHANGES.

The Rose bank Floral Co. have given up their store at 136 East Fourth street, Cincinnati. It is understood that they have moved to Lexington, Ky.

Reed & Keller, the wire work and rustic supply manufacturers have acquired several floors in the building adjoining their establishment on West 25th street, New York, and will take possession May 1st. This will give much-needed additional room for a rapidly developing business.

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AND YOU WILL RECEIVE THE FRESHEST AND BEST STOCK TO BE FOUND AND AT THE LOWEST PRICES

No. 1 Dagger Ferns, \$1.25; Fancy Ferns, \$1.50 per 1,000

Discount on Large Orders

GALAX Green or Bronze, 75c per 1000, In 10,000 lots \$6.50

Southern Smilax 50-lb. case \$5.50

We can supply you with fresh mace

LAUREL FESTOONING

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one of Trees for decorating purposes. Try the beautiful Pine. Telephone or telegraph orders will receive prompt attention.

CROWL FERN CO., MILLINGTON, MASS.



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FERNS

Dagger Ferns

and

Galax Leaves

Bronze or Green Galax, \$1.00 per 1000; \$7.00 per case. Dagger Ferns, A 1 stock, \$1.25 per 1000. \$1.00 per 1000 in lots of 10,000 or over. Stock guaranteed first class.

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FINE ROSES FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS
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A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
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FOR GOOD PRICES AND CASH RETURNS
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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Apr. 21 1906		First Half of Week beginning Apr. 23 1906			Last Half of Week ending Apr. 21 1906		First Half of Week beginning Apr. 23 1906	
Roses					Carnations, Fancy	3.00 to 5.00	2.00 to 4.00		
Am. Beauty and Edgeley fan and sp.	12.00 to 20.00		12.00 to 20.00		Carnations, Ordinary	1.00 to 2.00	1.00 to 2.00		
“ extra	10.00 to 12.00		10.00 to 12.00		Cattleyas	50.00 to 100.00	50.00 to 100.00		
“ No. 1	6.00 to 10.00		6.00 to 10.00		Lilies	3.00 to 6.00	4.00 to 6.00		
“ Lower grades	1.00 to 4.00		1.00 to 4.00		Callas	4.00 to 6.00	4.00 to 6.00		
Bride & 'Maid, fan and sp.	5.00 to 8.00		5.00 to 8.00		Lily of the Valley	1.00 to 3.00	1.00 to 3.00		
“ extra	3.00 to 5.00		3.00 to 5.00		Violets	.15 to .40	.15 to .40		
“ No. 1 and lower grades	1.00 to 3.00		1.00 to 3.00		Tulips	to	to		
Liberty, fancy	15.00 to 25.00		15.00 to 20.00		Sweet Peas	.50 to .75	.50 to .75		
“ ordinary	3.00 to 8.00		3.00 to 8.00		Nigronette	1.00 to 3.00	1.00 to 3.00		
Richmond, fancy	15.00 to 20.00		15.00 to 20.00		Adiantum Cuneatum	.50 to 1.00	.50 to 1.00		
“ ordinary	1.00 to 8.00		1.00 to 8.00		“ Croweanum	to 1.50	to 1.50		
Golden Gate, fancy	5.00 to 6.00		5.00 to 6.00		Smilax	10.00 to 25.00	10.00 to 25.00		
“ ordinary	1.00 to 3.00		1.00 to 3.00		Asparagus Plumosus	20.00 to 35.00	20.00 to 35.00		
Chatenay, fancy	6.00 to 10.00		6.00 to 10.00		“ & Sprengeri, bunches	10.00 to 25.00	10.00 to 25.00		
“ ordinary	1.00 to 3.00		1.00 to 3.00		Lilacs per 100 bunches	to	to		

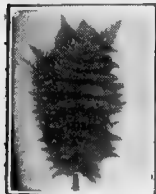
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Wholesale **FLORIST**
51 West 28th St., New York
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Lily of the Valley, Orchids and
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Tel. 1462 Madison Sq. New York
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Young & Nugent
42 W. 28th St., New York

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Wanted.—A few more reliable growers of
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FLORISTS' SUPPLIES

BEST LINE IN THE COUNTRY

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We manufacture all our

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First class, early grafted, Brides
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lish stock. Prices \$10.00 and
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Headquarters in Western New York

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ROSES, CARNATIONS

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist, also Dealer in
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383-87 ELLICOTT ST.
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Give us a trial. We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

NEW CROP SOUTHERN WILD SMILAX \$3.50 and \$7.00 per Case.

Headquarters for all FLORISTS' SUPPLIES. Wire
Designs, Cut Wire, Letters, Immortelles, Cypas Leaves,
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LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main, 2618.

WHOLESALE FLOWER MARKETS.

PER 100.
TO DEALERS ONLY.

	CINCINNATI April 24	DETROIT April 23	BUFFALO April 23	PITTSBURG April 23
ROSES				
Am. Beauty and Edgely. fan and sp.	40.00 to 50.00	30.00 to 40.00	30.00 to 55.00	20.00 to 30.00
" extra.....	35.00 to 45.00	25.00 to 35.00	30.00 to 40.00	12.00 to 15.00
" No. 1.....	25.00 to 30.00	10.00 to 20.00	6.00 to 15.00	8.00 to 10.00
" Lower grades.....	10.00 to 15.00	..... to 8.00	4.00 to 10.00	2.00 to 5.00
Bride and Maid, fan. and sp.	..... to 8.00	8.00 to 10.00	8.00 to 10.00	10.00 to 12.00
" extra.....	5.00 to 6.00	5.00 to 8.00	6.00 to 8.00	6.00 to 8.00
" No. 1 and Lower gr	3.00 to 4.00	3.00 to 5.00	3.00 to 6.00	3.00 to 4.00
Liberty, fancy.....	..... to 8.00	8.00 to 10.00	10.00 to 15.00	..... to 10.00
" Ordinary.....	4.00 to 6.00	5.00 to 8.00	4.00 to 8.00	..... to 10.00
Richmond, Fancy.....	..... to 10.00	10.00 to 12.00	10.00 to 15.00	10.00 to 15.00
" Ordinary.....	..... to 5.00	5.00 to 8.00	4.00 to 8.00	6.00 to 8.00
Golden Gate, Fancy.....	..... to 8.00	10.00 to 12.00	10.00 to 15.00	..... to 10.00
" Ordinary.....	3.00 to 5.00	5.00 to 10.00	4.00 to 6.00	..... to 10.00
Chatenay, Fancy.....	..... to 6.00	6.00 to 8.00	6.00 to 10.00	10.00 to 12.00
" Ordinary.....	..... to 5.00	5.00 to 6.00	4.00 to 8.00	6.00 to 8.00
CARNATIONS				
Fancy.....	..... to 3.00	3.00 to 4.00	2.50 to 3.00	2.00 to 4.00
Ordinary.....	1.00 to 2.00	1.00 to 3.00	1.50 to 2.00	..... to 1.00
MISCELLANEOUS				
Cattleyas.....	..... to 10.00	..... to 15.00	..... to 15.00	..... to 15.00
Lilies.....	10.00 to 12.50	10.00 to 15.00	..... to 15.00	6.00 to 12.00
Callas.....	6.00 to 8.00	..... to 12.50	..... to 15.00	6.00 to 10.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Violets.....	1.15 to 1.50	1.50 to 1.75	1.30 to 1.50	1.50 to 1.75
Tulips.....	..... to 3.00	3.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Sweet Peas.....	1.50 to 1.75	1.75 to 1.00	1.20 to 1.00	1.50 to 1.75
Mignonette.....	..... to 1.00	..... to 1.00	2.00 to 4.00	2.00 to 3.00
Adiantum Cuneatum.....	..... to 1.00	..... to 1.00	1.50 to 1.00	1.75 to 1.00
" Cuneatum.....	..... to 1.25	..... to 1.50	1.25 to 1.50	..... to 1.25
Smilax.....	..... to 15.00	12.00 to 15.00	15.00 to 20.00	20.00 to 25.00
Asparagus Plumosus, strings.....	..... to 50.00	30.00 to 40.00	25.00 to 50.00	20.00 to 50.00
" & Sprenger, bunches.....	..... to 35.00	25.00 to 30.00	25.00 to 50.00	35.00 to 50.00
Lilacs per 100 bunches.....	..... to 1.00	..... to 1.00	..... to 1.00	..... to 1.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

E. A. BEAVEN

Wholesale Dealer in

SOUTHERN WILD SMILAX

and Florists' Hardy Decorative Supplies.
New crop now ready in limited quantities.

EVERGREEN, ALA.

WHOLESALE

Fancy and Dagger Ferns, Galax and Leucothoe,
Bronze and Green Baled Spagnum, and Green
Flosses Leaf Mold. Orchid and Azalia Peats, Fresh
cut Palmetto and Cypas Palm leaves. Wild Smilax
—Boxwood. All Decorating Evergreens.

THE KERVAN CO.

Tel. 1519 Madison Sq.

20 West 27th St
NEW YORK.

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Joseph Breck & Sons,
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ALYSSUM.

Sweet alyssum, fine plants, \$1.00 per 100.
S. A. Pinkstone, 20-22 Philip, Utica, N. Y.

AGERATUMS.

Ageratum Gurney, Pauline; rooted cuttings, 60c, 100, S. A. Pinkstone, 20-22 Philip, Utica, N. Y.

ASPARAGUS.

Oak Grove Nurseries, Los Angeles, Cal.
Asparagus Pl. N. Seed.
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Asparagus Sprenger, 2 1-2 in., \$2.25 per 100. Otto Bourdy, Lowell, Mass.

Asparagus Sprengeri Plants out of bench large clumps planted last June out of 3 in. pots, \$8 and \$10 per 100, by James Crawshaw, Providence, R. I.

Asparagus Plumosa, 2 in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 285 Ellicott St., Buffalo, N. Y.

ASTERS.

Asters, nice strong plants. Queen of Market, Semples, Carlson, separate colors, 35c. per 100 by mail; \$3.00 per 1000 by express. S. W. Pike, St. Charles, Ill.

BEGONIAS.

Innes & McRae, Cheswick, Pa.
Gloire De Lorraine,
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Cycas Revoluta Stems: Lilium Harrisii and Longiflorum.

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CANNAS.

Canna Alemannia, dry or started roots, \$2.00 per 100. J. H. Krone, Jr., Fort Smith, Ark.

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Carnation Victory.

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Carnation Robert Craig.

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Carnations, Winsor, White Enchantress, Helen M. Gould.

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CHRYSANTHEMUM PLANTS.

Opak, Mildred Ware, Mrs. Weeks, Amorita, Convention Hall, Dr. Eugenhart, F. S. Vallis, Mrs. E. Thirkell, Etienne Bonnefond, Alliance, Beauty of Sussex, Mrs. Birce, La Fusion, Merstham Yellow, Fred Lemon, \$2.50 per 100; \$20.00 per 1000.

G. S. Kaib, Florence Teal, Glory of Pacific, Polly Rose, Willowbrook, Golden Trophy, Robt. Halliday, D. W. Childs, John Shrimpton, Maj. Bonnafan, Col. Appleton, Nivus, Bride, Pink Ivory, White Ivory, Vivand Morel, Cullingford, Ermanilda, Areline, Nagoya, Maud Dean, Mutual Friend, W. H. Lincoln, Black Hawk, Jerome Jones, F. G. Jones, Golden Wedding, Timothy Eaton, Mme. F. Perrin, Wm. Duckham, \$1.50 per 100; \$12.50 per 1000. Address W. F. Kasting, 383-387 Ellicott St., Buffalo, N. Y.

Wm. Swayne, Kennett Square, Pa.
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CLEMATIS.

Clematis paniculata, 2-yr., transp., \$6 per 100; 1-yr., strong, \$4 per 100. H. Y. Teas, Centerville, Ind.

COLEUS.

H. N. Eaton, So. Sudbury, Mass., Rooted Cuttings.

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COREOPSIS.

Coreopsis lanceolata, 2-1/2 in. pots, \$2.50 per 100. E. Y. Teas, Centerville, Ind.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.
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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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FERTILIZERS.

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Sterilized Sheep Manure.
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FEVERFEW.

Feverfew, \$1.00 per 100, \$8.00 per 1000.
Prepaid. S. W. Pike, St. Charles, Ill.

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GERANIUMS.

Geraniums, large top cuttings, well rooted: Peter Henderson, \$2.50 per 100; Trego, \$2.00 per 100, \$18.00 per 1000; S. A. Nutt, Mrs. E. G. Hill, Beaute Potievine, Jean Vland, Mme. Buckner (best white), \$1.50 per 100, \$14.00 per 1000. The W. T. Buckley Co., Springfield, Ill.

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GLADIOLI.

- Arthur Cowee, Meadowvale Farm, Berlin, N. Y.
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- Gladioli. Colors, mixtures and named. All sizes. Also bulbets. E. E. Stewart, Rives Junction, Mich.

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Glass, French and American "White Rose" brand. Stenzel Glass Co., 2 Hudson St., New York.

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GREENHOUSE HOSE.

- Anchor Greenhouse Hose is the best for Florists.
- Mineralized Rubber Co., New York.

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HOTHOUSE GRAPE VINES.

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HYDRANGEAS.

Hydrangea Otaska, 3 in., \$4.00 per 100; 4 in., \$8.00 per 100; 5 in., \$2.00 per doz., \$12.00 per 100; 6 in., \$3.00 per doz. Large plants from 10-in. pots, fine stock lawn decoration at \$1.00 each; Dracaena Indivisa, 2 in., \$2.00 per 100; 3 in., \$4.00 per 100; Jemene, strong bulbs, \$3.00 per 100. Chrysanthemums, clean stock, Pally Rose (plant early for best results); Ivory, Alice Byron, best white to date; Halliday and 20 other stand. Sorts, R. C., \$1.00 per 100; potted plants, \$2.00 per 100. E. Fryer, Johnstown, Pa.

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NYMPHEAS.

Odonata Rosea and Marliacea Chromatela, strong roots, \$3.00 per doz. W. I. Bodfish, West Barnstable, Mass.

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Importers, Exporters, Growers, Hybridists.
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Julius Roehrs Co., Rutherford, N. J.
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PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
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PETUNIAS.

Petunias, California giants, single, from soil, \$1.00 per 100, S. A. Pinkstone, 20-22 Philip, Utica, N. Y.

PLANTS, BEDDING.

- J. C. Schmidt Co., Bristol, Pa.
Spiraea Japonica.
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PRIMULA OBCONICA.

O. V. Zangen, Hoboken, N. J.
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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

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Flowers by Telegraph.

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Young & Nugent, New York.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Rose Hill Nurseries, New Rochelle, N. Y.
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Montrose Greenhouses, Montrose, Mass.
Grafted Roses.

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Wm. W. Edgar Co., Waverley, Mass.
English H. P. Roses.

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H. A. Dreer, Philadelphia.
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Richmond roses, 21-2 in. pots, strong, vigorous stock, \$8.00 per 100; \$70.00 per 1000; 4000 plants. Joy & Son Co., Nashville, Tenn.

Roses, 2 1/2-in. pots, Kaiserines and 300 President Carnots, \$4.00 per 100, \$35.00 per 1000. Cash with order or good reference. Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass.
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J. M. Thorburn & Co.,
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H. F. Michell Co., 1018 Market St., Philadelphia, Pa.
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Schlegel & Fottler Co., 26 S. Market St., Boston, Mass.

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Peter S. Reid, Oratava, Terriffie, Bermuda Onion Seed.

SEEDS—Continued.

Seeds, 100,000 fresh greenhouse grown Asparagus plumosus seed, \$2.50 per 1,000 on large lots. Henry Young, Ada, O.

Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montclair, N. J.
For page see List of Advertisers.

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province St., Boston, Mass.

For page see List of Advertisers.

E. A. Heaven, Evergreen, Ala.
For page see List of Advertisers.

SPHAGNUM; CEDAR POLES.

H. R. Akers, Chatsworth, N. J.
For page see List of Advertisers.

TOMATO AND PLANT SUPPORTS.

Igoe Bros., 226 North 9th St., Brooklyn, N. Y.

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VENTILATING APPARATUS.

Lord & Burnham Co.,
1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Square, New York.

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Hitchings & Co., 1170 Broadway, New York.

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John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.

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Weathered Co., 46 and 48 Marion St., New York.

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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.

J. C. Montinger Co., 421 Hawthorne Ave., Chicago

VERBENAS.

The new verberna, Ellen Willmott, the finest cerise pink in existence, rooted cuttings, \$2.50 100. Cash. W. W. Stertzing, 7280 Old Manchester, St. Louis, Mo.

VINCAS.

35,000 myrtle, Vinca minor, \$10.00 to \$50.00 per 1000. S. J. Galloway, Eaton, Ohio.

Vinca minor var., 2 1/2 in. pots, \$4 per 100. E. Y. Teas, Centreville, Ind.

E. & C. Woodman, Danvers, Mass.
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VIOLETS.

Wm. Swayne, Kennett Square, Pa.
Lady Campbell.

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WIREWORK.

Reed & Keller, 122 W. 23th St., New York.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

MISCELLANEOUS.

Floral photographs. Foley's, 226-228 1-2 Bowery, New York.

WHOLESALE FLORISTS.**Boston.**

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.

George A. Sutherland Co., 34 Hawley St., Boston.

Welch Bros., 15 Province St., Boston.

Buffalo.

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Wm. F. Kasting, 383-87 Ellicott St., Buffalo, N. Y.

Chicago.

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J. A. Budlong, 37 Randolph St., Chicago.

E. H. Hunt, 76-78 Wabash Ave., Chicago.

Chas. W. McKellar, 51 Wabash Ave., Chicago.

Peter Reinberg, 51 Wabash Ave., Chicago.

A. L. Randall Co., 21 Randolph St., Chicago.

Vaughan & Sperry, 60 Wabash Ave., Chicago.

E. F. Winterson Co., 45, 47, 49 Wabash Ave., Chicago.

WHOLESALE FLORISTS—Continued.**Cincinnati.**

Ohio Cut Flower Co., 129 E. 8d St.
Wm. Murphy, 128 E. 3d St.

Detroit.

For page see List of Advertisers.
Michigan Cut Flower Exchange, 38 & 40 Miami Av. Wm. Dilger, mgr.

New York.

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Bonnot Bros., 55-57 West 26th St., New York.

J. S. Fenrich, 110 W. 28th St., New York.

Ford Bros., 48 West 28th St., New York.

H. E. Froment, 57 W. 28th St., New York.

Alex. J. Guttman, 43 West 28th St.

E. C. Horan, 55 West 28th St., New York.

Philip F. Kessler, 55 W. 26th St., New York.

Julius Lang, 53 West 30th St., New York.

A. H. Langjahr, 55 W. 28th St., New York.

James McManus, 50 W. 30th St., New York.

Chas. Millang, 50 West 28th St., New York.

Frank Millang, 55-57 W. 26th St., New York.

A. Moltz, 55-57 W. 26th St., New York.

John J. Perkins, 115 W. 30th St., New York.

John I. Raynor, 49 W. 28th St., New York.

W. F. Sheridan, 39 W. 28th St., New York.

Traendly & Schenck, 44 W. 28th St., N. Y.

John Young, 51 W. 28th St., New York.

Philadelphia.

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W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.

Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.

S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.

Pittsburg.

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Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue.**AMERICAN BEAUTY PLANTS.**

John Burton, Chestnut Hill, Philadelphia, Pa.

For page see List of Advertisers.

CHRYSANTHEMUMS.

Halliday Bros., 329 N. Charles St., Baltimore, Md.

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ESTATE FOR SALE.

Thomas DeVoy's Sons, 40 Worrall Av., Poughkeepsie, N. Y.

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GRAFTED ROSES.

A. N. Pierson, Cromwell, Conn.

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GRASS SEED MIXTURES.

R. & J. Farquhar & Co., 6 and 7 S. Market St., Boston.

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GREENHOUSE HEATING.

Wm. H. Lutton, West Side Av. Sta., Jersey City, N. J.

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HARDY FERNS.

Crowl Fern Co., Millington, Mass.

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HARDY HERBACEOUS STOCK AND NURSERY STOCK.

Blue Hill Nurseries, J. Heurlin, S. Braintree, Mass.

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HARDY HERBACEOUS STOCK AND NURSERY STOCK.

Palisades Nurseries, Sparkill, N. Y.

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NURSERY STOCK.

The F. E. Conline Nursery Co., Stratford, Conn.

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PANSY PLANTS.

Geo. Sanderson & Son, Weston, Mass.

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VIOLET, GOV. HERRICK.

H. R. Carlton, Willoughby, O.

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Easter Reports Received Late.

BUFFALO Although a little late in making the Easter report, it may be said that the Easter trade in this city was a success. Four days of cloudy weather, with abundance of rain at the beginning of the week, saddened the hearts of many; but on Friday the day opened with sunshine and all had smiles.

The plant trade was excellent, reports stating all sold out at noon Saturday. No lily plants were to be had; medium price azaleas were in big demand and were bought up as quick as unloaded; hydrangeas, bougainvilleas, ramblers, rhododendrons, and pans of bulbous stock in superior quality sold well. The cut flower trade was equal to previous years. The beginning of the week found carnations and lilies scarce, but roses and other stock plentiful. On Saturday, up to noon, stock poured in as fast as could be handled. Colored carnations were in good demand, but an enormous lot of white was had which did not sell as fast as desired. Violets were of good quality and sold well. The demand on roses was weak; same on bulbous stock, and a considerable amount was carried over, together with mignonette, which was overplentiful. A good supply of callas was had and sold well. The shipping trade was good and everyone well satisfied with the 1906 Easter business. Since Easter there has been a scarcity of carnations, only lasting for two days. At the time of mailing the report the market is overstocked on all lines and business is at a standstill with prices very low.

DETROIT Mild weather made the wrapping of plants or the heating of delivery wagons unnecessary and plants were transferred in open wagons and vans without risk of injury, a great convenience to all concerned. The demand was very steady throughout Friday and Saturday for plants as well as cut flowers and but little was left to be disposed of on Sunday morning. Fifty cents to \$5.00 each was about the range of plant values; a few larger and higher priced ones were left over. With so heavy a business to be done anything below 50 cents is a nuisance and loss to the dealer. Stock of cut flowers was very poor in a majority of cases. Carnations were marketed on Saturday morning which at night were fit only for the rubbish pile and a great many roses were in the same condition. Mignonette was not up to standard. Violets were considered good for this time of the year and sold all right to the limit. Lilies in plant form and as cut flowers were disposed of in large numbers, the wholesale houses supplying the demand with great difficulty. Sweet peas were good sellers but in more than sufficient supply. Daffodils and tulips, cut and growing in pans, sold well, as did also hyacinths. Rambler and Baby Rambler roses were in beautiful shape and were all disposed of. For American Beauty the demand was light. Pot covers in various designs and material were generally used in plant sales. The universal report from the stores

is that the business was the largest they ever enjoyed at Easter.

INDIANAPOLIS Reports received from all sources are to the effect that the past Easter business was the largest ever done in the city. Plant sales were far in excess of cut flowers. Nothing new was to be seen in plant arrangements. Made-up baskets and various shaped bark boxes and twig baskets, as usual found ready sale. Well grown lilies were to be seen in abundance everywhere and supply seems to be about equal to demand. There was a slight advance in prices of Beauties and teas, and everything desirable sold out well. Bulbous stock sales were better than former years, as quality was above the average and at the usual prices.

ST. PAUL AND MINNEAPOLIS

The weather man tried his best to wreck the Easter trade this year, but in spite of rain and wind, snow and cold, the florists of Minneapolis and St. Paul have much to be thankful for. Until Saturday evening the weather was very stormy and many of the regular customers beside the transient buyers were kept at home. However, the more venturesome spirits and those whose daily work took them down town, rain or shine, made up for the bad weather, and by Sunday morning there were but few good plants to be had. Easter Sunday was a beautiful day, and cut flowers were dealt out as rapidly as the clerking force could handle them. Roses, carnations, tulips and jonquils were the most in demand and violets were cleaned out long before noon. All the stock was of the best and commanded the highest prices. Among the potted plants, lilies taking the lead, azaleas, hydrangeas and hybrid roses sold out first. Violet plants sold well but they were not of the best. Spireas brought prices beyond expectations, and Boston ferns finished the list. Altogether everything went off well, considering the efforts of the weather man to the contrary, and with Easter and the day after clean-up over, we are ready to turn our attention to the post-Lenten bride and the sweet girl-graduate.

GREENHOUSES BUILDING AND PROJECTED.

Xenia, O.—J. J. Lampert & Sons, one house.

West Manchester, Mass.—Edward S. Grew, range of houses.

LIST OF PATENTS.

Issued April 17, 1906.

- 817,758. Greenhouse-Sash Opener. Newton R. Evans, Richmond, Ind., assignor to John A. Evans, Richmond, Ind.
- 817,849. Process of Fumigating Plants. Robert Hand, East Cleveland, Ohio.
- 818,301. Lawn-Mower. Thomas S. Sayre, Cape May, N. J.
- 818,342. Fruit-Picker. James T. Bell, Lansing, Mich.
- 818,356. Plant-Irrigation System. Thomas A. Davis, Findlay, Ill., assignor of one-half to Charles Bevarley Davis, Todds Point township, Ill.

FOR SALE

BEAUTIFUL HOME AND BUSINESS. Poughkeepsie, N. Y., to close an estate—situated in growing section of city on Worrall Avenue, one block from Main Street and South Side trolley—15 minutes' walk to Vassar College, 10 minutes' to driving park, consisting of 1½ acres of ground facing 200 feet on avenue, 2½ story Slate Roof Frame Dwelling, Barn 36 x 28 feet, large cellar, city water, Georgia Pine finish, beautiful hemlock hedge on north line, fruit trees, lawn, shrubs, etc.—1500 square feet glass (Seven Substantial Greenhouses, and Propagating House)—city water throughout, electric lights through the avenue—15 minutes to Hudson River R. R. Station. This property situated for a beautiful summer or permanent home. Greenhouses can be run to cover all expenses of living and yield profit. Must be seen to be appreciated. Call or address

THOMAS DEVOY'S SON,
(Administrator)
40 WORRALL AVE., POUGHKEEPSIE, N. Y.

WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR RENT

TEN GREENHOUSES in running condition; possession immediately; \$50. Dwelling house attached, \$12; or will run on shares.

Apply **TRAENDLY & SCHENCK,**
44 W. 28th Street, N. Y.

FOR SALE—Two greenhouses, 23x95, 20x68, with hot water heating apparatus and well stocked with Carnations and Violets. Will sell as it is with dwelling house attached and 17,000 feet of land, or to be taken down and removed. Address 703 Chestnut St., Waban, Mass.

WANTED immediately a nursery man; position not permanent, good wages, address E. Raymond, 135 Broad Street, Pawtucket, R. I.

WANTED To purchase collection of Orchids from private parties. Address, Gerndt & Company, 24 Clinton street, Newark, N. J.

WANTED First-class second man, single, to take charge of formal flower garden thirty miles from New York. Salary \$65 per month. Olmsted Brothers, Brookline, Mass.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active practice. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS

PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

BY SLIPPING A

PEERLESS GLASS REPAIR CLAMP

over a cracked glass you protect your stock, save old and glass. Do it now before the high winds play havoc with your roofs. \$1.00 will repair 150 lights. Ask your supply man, or

KLOKNER, Wauwatosa, Wis.
Endorsed by about 400 prominent florists.

YOU WANT WE WANT ORDERS ADVERTISING
LET US GET TOGETHER

Monuments of Success

**200,000 SQUARE FEET OF GLASS
HEATED IN 1905**

PRETTY FAIR. Not connected with any combination or trust.

Read the following from J. D. Cockcroft,
Northport, Long Island, N. Y.

Mr. Wm. Lutton.

Dear Sir: I wish to express my entire satisfaction of the heating plant that you installed in my three new combination houses, 33-117; we have not the slightest difficulty in maintaining the temperature, and I am well pleased with the boiler.

Original copies of the above letters with numerous others on file at my office. Will furnish you complete or separate estimates on your heating and building.

Some Private Work.

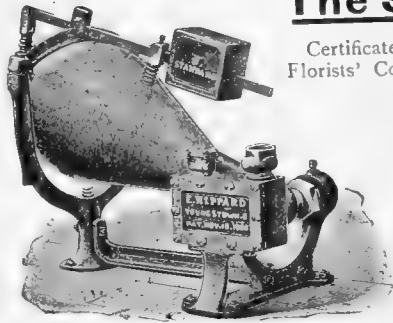
Mr. Wm. H. Lutton,

Dear Sir: I am well pleased with the heating of our new palm house; your work has been done in a satisfactory and workmanlike manner, true to the letter of your contract, which means first-class work. You can have the liberty to use my name, and can refer anyone to me, and I shall give you the credit that you are justly entitled to.

Yours respectfully,
John Shore, Supt.
Wm. H. Macy, Esq., Harrison, N. Y.

WM. H. LUTTON, West Side Avenue Station,
JERSEY CITY, N. J.

The Standard Steam Trap



Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

E. HIPPARD, Youngstown, Ohio

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

Holds Glass Firmly
See the Point **PEERLESS**
FULL SIZE No. 2
Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

**YOU WANT ORDERS
WE WANT ADVERTISING**
LET US GET TOGETHER



STANDARD FLOWER POTS

Packed in small crates, easy to handle			Price per crate			Price per crate		
1500 2 1/2 in. pots	in crate	\$4.88	120 7 in. pots	in crate	\$4.20	48 9 in. pots	in crate	\$3.90
1500 2 1/4 in. pots	"	5.25	60 8 in. pots	"	3.90			
1500 2 1/2 in. pots	"	6.00						
1000 3 in. pots	"	5.00						
800 3 1/2 in. pots	"	5.80						
500 4 in. pots	"	4.50						
320 5 in. pots	"	4.51						
144 6 in. pots	"	1.16						
Seed pans, same price as pots.			Send for price list of			HAND MADE		
Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address			Hilfinger Bros., Pottery, Fort Edward, N. Y.			48 10 in. pots	"	4.80
August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.						24 11 in. pots	"	4.60
						24 12 in. pots	"	4.80
						12 14 in. pots	"	4.80
						6 16 in. pots	"	4.50

Standard Flower . . . POTTS

If your greenhouses are within 500 miles of the Capital, write to us, we can save you money
W. H. ERNEST.
28th and M Streets, WASHINGTON, D. C.

SUN DRIED CYPRESS GREENHOUSE MATERIAL
IS THE BEST.
WRITE
FOLEY MFG. CO.
471 W. 22nd ST.
- CHICAGO -
FOR FREE CATALOGUE
VENTILATING APPARATUS, FITTINGS
HOT-BED SASH. WE MAKE SKETCHES AND ESTIMATES.

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.
FOLEY MANUFACTURING CO.,
471 W. 22d Street, Chicago

**YOU WANT ORDERS
WE WANT ADVERTISING**
LET US GET TOGETHER

WEATHERED COMPANY

46 MARION ST., NEW YORK

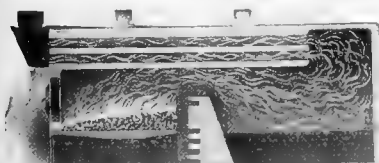
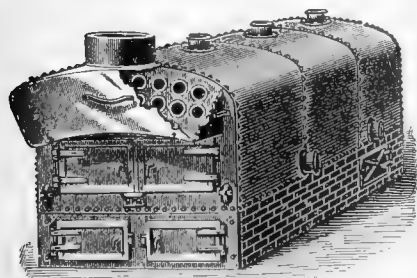
GREENHOUSE BUILDING AND HEATING
Send for Catalogue.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

35 Erie Street, CHICAGO.



Boilers made of the best material, shell, firebox sheets and heads of steel water space all around front, sides and back. Write for information.

GREENHOUSE MATERIAL

Made of clear Gulf Cypress is what we manufacture. We supply everything for your houses and your carpenter does the rest with the working plans we furnish. Let us figure on your requirements. We can save you money.

S. JACOBS & SONS

1365-79 Flushing Ave., Brooklyn, N.Y.

SEND FOR CATALOGUE OF
**SCOLLY HOT WATER
and STEAM BOILERS**

JOHN A. SCOLLY

73 and 75 Myrtle Avenue

BOROUGH OF BROOKLYN, N. Y. CITY

N. TONAWANDA,
N. Y.

TORONTO,
ONT.



GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.

117 E. Blackhawk St., CHICAGO

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.



U-BAR REASON

NUMBER EIGHT

Greenhouse owners are constantly demanding less shading members—but why not increase the glass spacing as well.

U-BAR GREENHOUSES

Are the Best Greenhouses Built

because it is the only construction that uses 24 inch glass -- the only house combining sash bar and rafter in one.

KNOW U-BAR REASON
BEFORE YOU BUY A GREENHOUSE

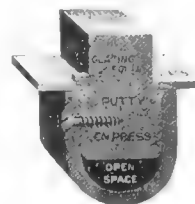
PIERSON U-BAR COMPANY

Designers and Builders

U-BAR GREENHOUSES

Metropolitan Bldg., 4th Ave. and 23rd St.

NEW YORK



GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE 111 FIFTH AVE

74 FRANKLIN ST BOSTON

STANDARD PLATE GLASS CO.

Manufacturers, Importers and Jobbers

AMERICAN AND FRENCH GREENHOUSE GLASS

26-30 Sudbury Street

61-63 Portland Street

BOSTON, MASS.

TO BUYERS

Patronize our advertisers, they will treat you right



It Doesn't Matter

how good your intentions may be, how good the people you get to do the job, how good the materials used—if the plans are not right, the greenhouse is not right. By plans we mean its economical arrangement—the right thing for the right place. We are first of all plan makers—then manufacturers.

HITCHINGS AND CO

GREENHOUSE DESIGNERS & BUILDERS

MANUFACTURERS OF HEATING
& VENTILATING APPARATUS

1170 BROADWAY NEW YORK

Either Way

Some want a plain, practical, producing greenhouse, leaving it all to the flowers they grow or harbor to do the beautifying—Others feel that the greenhouse should be an architectural feature, a note of beauty itself.

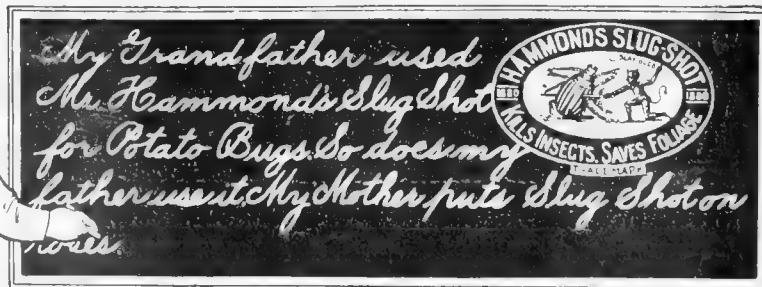
Either way is our way—but there is only one kind of materials and that's the best kind—our kind.

Lord & Burnham Co.

GREENHOUSE DESIGNERS
and MANUFACTURERS

1132 BROADWAY, cor. 26th Street, N. Y.
Boston Branch: 819 Tremont Building

SOLD BY ACTIVE SEED DEALERS 25 YEARS



"SLUG SHOT"

Used from Ocean to Ocean

A light, composite, fine powder, easily distributed either by duster, bellows, or in water by spraying. Thoroughly reliable in killing Currant Worms, Potato Bugs, Cabbage Worms, Lice, Slugs, Sow Bugs, etc., and it is also strongly impregnated with fungicides. Put up in Popular Packages at Popular Prices. **Sold by Seed Dealers and Merchants.**

HAMMOND'S SLUG SHOT WORKS, FISHKILL-ON-HUDSON, N. Y.

For Black Spot
"Solution of Copper"
1 gallon makes 100

For Blights or Rot
"Bordeaux Mixture"
True Blue and Butter
Fine

For San Jose
Scale

"Horicum"
Perfect Lime, Soda
and Salt Concentrated

FINE GOODS FOR USERS Twemlow's Old English Glazing Liquid Putty
Greenhouse White Paint, Genuine.

For use on Cold Frames, Greenhouses, etc.

For pamphlets worth having write

B. HAMMOND, Fishkill-on-Hudson,
NEW YORK.

HORTICULTURE

Vol. III.

MAY 5, 1906

No. 18



BANQUET OF THE GARDENERS' AND FLORISTS' CLUB OF BOSTON

At Horticultural Hall, April 25, 1906

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

Three Sterling Carnation Novelties

Winsor, White Enchantress, and Helen M. Could

There is nothing about any of these varieties that we wish to conceal; therefore, we cordially invite all carnation growers to pay us a visit. Come at any time.

WINSOR—Winner of Lawson Silver Medal.

This is sure to prove a winner. Nothing approaches it in color, which is a clear silvery pink—a shade between Enchantress and Mrs. Thos. W. Lawson—and much more beautiful than either. In fact, it is just the shade that we have all been trying to get. The color will make it sell in any market. The stem is just right. The flowers are considerably larger than Lawson and much better shaped. As a grower it has everything that can be desired. So far we have not seen any large-flowering variety quite so free as Winsor.

WHITE ENCHANTRESS.

A pure white sport of Enchantress, at once the most popular and most profitable carnation grown today, on account of its size and stem and freedom with which it blooms. White Enchantress is identical in every respect but color. Those desiring quality as well as quantity will find it in White Enchantress.

HELEN M. COULD.

This is a beautiful variegated sport of Enchantress. The ground color is a lovely shade of clear pink, the variegation carmine, making an exquisite combination of colors, besides being something distinctly new. At a short distance the variegation does not show at all, the general effect being a beautiful shade of dark pink. Growth, habit, size, and stem are the same as Enchantress.

We have fine stocks, from which we can deliver healthy cuttings of Variegated Lawson, White Lawson, Red Lawson, Enchantress, Mrs. M. A. Patten, Lady Bountiful, etc.

Our Variegated Lawson is all that we claimed for it last season, and is giving the fullest satisfaction everywhere—the best in the variegated class. Come and inspect our stock of new and standard sorts

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

LAST CALL FOR CARNATION PLANTS

		per 100	per 1000
4000 strong selected Robert Craig from pots,		\$12.00	\$100
1000 " " Octoroon " "		3.50	30
5000 " rooted cuttings Enchantress,		3.00	25

Robert Craig Still Ahead

TABLE OF RETURNS

Per square foot of Bench surface for blooms sold from September first until April first. In this computation Robert Craig has not been credited with several thousand blooms used for exhibition purposes:

Robert Craig	.55	8-10c	per sq. ft.
Enchantress	.47	1-10c	" " "
Mrs. Patten	.33	9-10c	" " "
Lady Bountiful	.28	1-2c	" " "

Thus our claim that Robert Craig is a first class commercial carnation is proved by the results obtained in actual practical commercial cultivation.

Send your orders promptly as the Cottage Gardens will cease making a specialty of growing rooted cuttings for sale after the present shipping season and will devote its entire plant exclusively to growing cut flowers for the New York market.

The Cottage Gardens Company

QUEENS, N. Y.

NOW FOR MEMORIAL DAY

The big Spring business must have left you cleaned out in many lines

ARE YOU SUPPLIED FULLY WITH EVERYTHING?

METALLIC DESIGNS

Richer, Handsomer, more artistic than ever.

Send us your order early and prove the truth of this statement

You Will Want All Neces- sary Requisites to Supply the Present and Coming Demand

We have the goods and you know our supply is complete.

Our fashionable Pompeian Tone Ware is very appropriate for all occasions. Try it and see what good results you receive.

Baskets of all kinds suitable for any and every event. Let us know your wants.

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY
HOUSE OF AMERICA

56 North 4th Street - - - PHILADELPHIA, PA.

DREER'S SEASONABLE SPECIALS.

New Dwarf Giant Flowered Ageratum "Inimitable."

A revelation in Ageratums, flowers and truss double the size of the best varieties now on the market, habit compact very free, \$1.00 per dozen, \$8.00 per 100.

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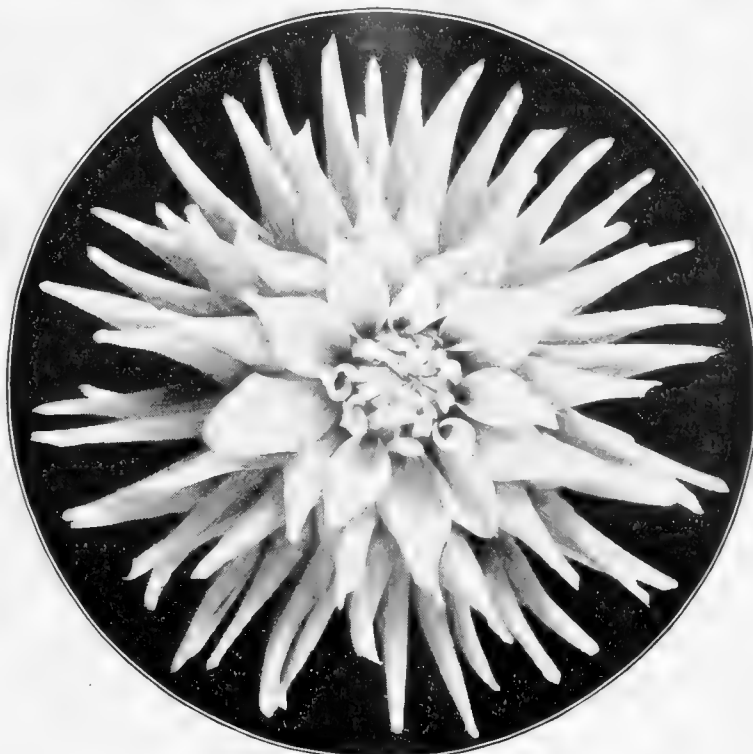
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HORTICULTURE

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The Rock Garden



Illustration From Catalogue of Fred'k W. Kelsey.

The season is again here when the first flowers of the early spring can be found peeping up, as each spring day brings forth new life among the occupants of a well-planted rock garden. The collection which we have among our rocks is too large to give it a full description, and many varieties have been only tested for this past season and can not be yet described as to their effectiveness of blooming or even hardiness, but a few varieties are well worth a notice. One of the most effective and the first to bloom as the snow melts away is *Primula rosea grandiflora* which is a very bright and soft rose and a very free bloomer with a straight stem six inches above the ground and with a small narrow lanceolate brownish leaf. *Primula denticulata alba* with a dense round head from two to three inches across and with deep broad leaves powdered with sulphur yellow under the leaf, is a splendid companion to the similar variety *denticulata* with purple flower blooms at the same time. *Primula acaulis* with its blue, and even indigo blue is a great favorite and very much admired at this moment. *Primula veris* with its great variety of color is appropriately called the bride of spring. The English cowslip, as it is called, is not as largely cultivated here as its beauty deserves. A beautiful miniature of the same family is *Primula farinosa* with a rosette of green foliage, silvery underneath and umbels of rosy lilac flowers which in groups of a couple of dozen plants is a splendid sight. *Arabis alpina* is a very desirable plant; a large patch among the rocks with its wooly whitish leaves and abundant flowers of pure white is a grand sight. There is a double variety which is a great im-

provement on the single. This variety must be propagated from cuttings, while the other is grown from seed. *Alyssum saxatile compactum* or rock mad-wort is a true companion for the above varieties, with *alyssum saxatile flora plena*, both being of a bright golden yellow.

Anemone pulsatilla, or pasque flower, grows from 9 to 12 inches high, producing a violet or purple, quite large flower. *Anemone sylvestris*, or snowdrop wind-flower, is a large cup-shaped pure white flower on clean straight stems held well above the handsomely cut foliage, one of the most satisfactory plants for rock gardens. There is *Elza Fellman*, a double flowering variety of the same growth, dwarf and very interesting. *A. Hudsonianum alpinum*, and *Halleri* from the Swiss Alps are good companions for the above and extremely interesting. *Ranunculus alpestris*, with a half-dozen other Alpine varieties has proven very hardy in this climate. *Papaver alpinum* with small, very compact, laciniated leaves and soft, silky and often beautifully fringed little flowers, from five to six inches high, are excitingly interesting. *Papaver nudicaule* is also a very nice variety for the rock garden. *Draba aizoon*, *armata*, *frigida*, and *pyrenaica* from the Swiss Alps have proven hardy and with their white speck-like flowers are very interesting.

Iberis saxatilis, *sempervirens*, and *stylosa*, or candy tuft, are indispensable in a rock garden. *Viola cornuta*, *lutea* and *alba*, with many others are just a grand sight and cannot be left out. We have also a number of the very old varieties of *dianthus* including *Dianthus deltoides*, *arenarius*, *alpinus*, *glacialis* and *moshotas*, all

dwarf, their flowers single and very fragrant, which are universally beloved alpine pinks, *Viscaria utriculata* with lanceolate leaves and pale yellow flowers in clefts of rocks, and *Helianthemum vulgare*, the English rock rose, yellow, occasionally rose-colored, cover quickly, and have proved very hardy here; *Saponaria ocymoides*, a spreading plant with a delicate rose or pink flowers and leaves lanceolate, also stood the winter well.

Silene ahafla, a pink flower of six to eight inches high, is one of the best varieties for our climate. It comes from Switzerland and Pyrenees. *Lychnis alpina*, flowers pink in compact cymes, leaves lanceolate, stem 3 to 6 inches high, grows at high altitudes in Switzerland, Dauphiny and Pyrenees, and does well here, having passed two severe winters. *Linum alpinum*, or flax plant, flower azure blue, is highly recommended for the rock garden. *Dictamnus* var. *albus*, flower pink, from the stony hills of southern Switzerland, is a very desirable plant. *Coronella minima*, flower yellow, 4 to 8 inches high, plant prostrate, comes from southern Switzerland, Jura and Pyrenees. *Dryas octopetala* is a charming alpine plant, flower 1 to 1 1/2 inches in diameter, white, calyx covered with black glandular hairs; leaves oblong-ovate, crenate, covered with a white wool on the under side, stem prostrate, fruit very feathery; this alpine plant, very striking both in flower and in fruit, is frequent in high pastures in the Alps. Among the saxifragas of special value we have *corniculata irrigua*, *cotyledon*, *longifolia*, with many other varieties too numerous to describe at present. All are a most interesting family in the rock garden.

Among the sedums we have the following varieties which have done well in this climate: *cruciatum*, *reflexum*, *origanifolia*, *aizoon*, *nianse*; we can not have too many of this most interesting family. The *sem-pervivum* collections also have an honored place in a rock garden, and are much in demand. The *campanula* varieties best adapted for the rockery are all the very dwarf varieties such as *alpina*, *longifolia*, *linifolia*, *ruela*, *pulsilla* and *carpathica*, with many other alpine species. *Aster alpinus* is one of the grandest flowers. *Leontopodium alpinum* or *edelweis* is too well known and should never fail in a rock garden, as it is easily produced from seed. Of the *androsaces* from the high Alps some six varieties have done well with us, and are very interesting.

Cyclamen repandum flower red, longer than that of *C. europæus*, throat of corolla not toothed, leaves cordate ovate somewhat angular, root stock elongated, from Pyrenees and Switzerland, has proved hardy with me, and is a very interesting plant. *Polemonium reptans*, flower lilac purple, 8 to 10 inches high, is a very satisfactory plant for the rock garden. *Gentiana* is another very interesting Swiss plant which seems to pass our winters well. I have grown some six varieties which have not bloomed yet with us. *Ramondia pyrenaica* is a very interesting rare plant with us. The flower is large violet, solitary; fond of deep shady rocks. *Linaria alpina* is also one which should not be missed in a

rockery collection, flower violet with yellow throat, 4 to 6 inches high. *Erinus alpinus* is also a very low dwarf plant with a pink and white flower, but not always very hardy with us. *Veronica rupestris*, with small dark blue flower, seems to do well here.

J. F. Meas.

Cucumber Forcing

Cucumber forcing has attained large proportions with many greenhouse men, who make it a main winter crop or utilize it as a spring filler following lettuce, growing it with some companion crop as radishes or beans.

As the yield is only about one-half as great in the winter as during the spring, and the demand light until February or March, it has been found more advantageous to grow some better paying crop in the winter, to be followed in the spring by cucumbers.

The seed for the spring crop is sown any time after the first of January in three-inch pots half filled with rich loam (or on an old half-decayed inverted sod). Bottom heat is given, and as a precaution for "damping-off" a layer of sand is sprinkled over the surface, or the soil is sterilized previous to use. The seedlings should appear in three to six days, and as soon as the true leaves come out the pots are filled up with earth. This provides support and additional nutriment, and does away with repotting.

When six to eight inches high, or in about four weeks from seed sowing, the seedlings will be ready to transplant into permanent quarters, benches six to eight inches deep with bottom heat, furnishing the best conditions. The seedlings can be started in a hot-bed or small house and grown there until transplanting time. A crop can thus be started while the main house is still in lettuce, or whatever the cucumbers are to follow, the seed sowing being planned just enough ahead so the house will be empty when the cucumbers need the room.

The soil should be rich in organic matter. A satisfactory way consists in filling the beds four inches deep with decayed sod, and then finishing with a mixture of three-fourths garden soil and one-quarter well rotted manure. An inch of pebbles or clinkers in the bottom will help the drainage.

In setting the house it is well to plant twice as many plants as are finally desired, thinning out the weaker ones so that those left will stand three or three and a half feet apart.

Cucumbers require a warm temperature, the night range being 60-65 degrees, while the day range is 75-80 degrees or higher on several consecutive clear days. They demand a rather moist atmosphere, but the houses should be dried off every day or two, especially in cloudy weather, to control mildew. Plenty of air without di-

rect drafts is essential. Care must be exercised in watering not to keep the soil soaked all the time.

The cucumber is a gross feeder, and as the yield will depend on the feeding, stinting will not pay. Liquid manure once a week is a good fertilizer, while ground bone and wood ashes are desirable additions.

As the plants grow they need training on wires one foot apart, and pruning. The plants are trained either as single or double shoots, but as the cucumber is susceptible to crowding, the single shoot system will give the best results as a rule. To produce the double shoot system, the seedling is cut at the first axis above the cotyledons when it is young. This causes the formation of two shoots.

As soon as the fruit sets, which is usually in the first or second joint of the lateral, the branch is cut off at the next axis beyond. This induces a secondary branch, which is in turn severed when fruit sets, producing a third, which is treated in the same way, and so on. When the plant reaches the desired height it is pinched back.

As the staminate and pistilate organs are borne on separate flowers the latter must be fertilized by hand. They are distinguished by the embryo fruit below the blossom and fertilization consists simply by removing a staminate blossom and inserting it in a pistilate form.

Two general classes of cucumbers are forced, (a) the English sorts, and (b) the White Spine varieties, while a hybrid of the two is sometimes grown. The former, with their huge size, are not general favorites here, requiring as they do a higher temperature, bottom heat, greater shade, and a much longer time in which to reach maturity and ripen their fruit. The White Spine kinds mature a crop in sixty days and are not nearly so particular regarding temperature and environment.

The size of a crop varies greatly, as high as ninety fruits to a plant between April and June being recorded in one case. Forty is nearer the average. In eastern cities there is a steady demand at fair prices, \$1 to \$3 per dozen, February and March furnishing the best market.

R. Z. Adams.

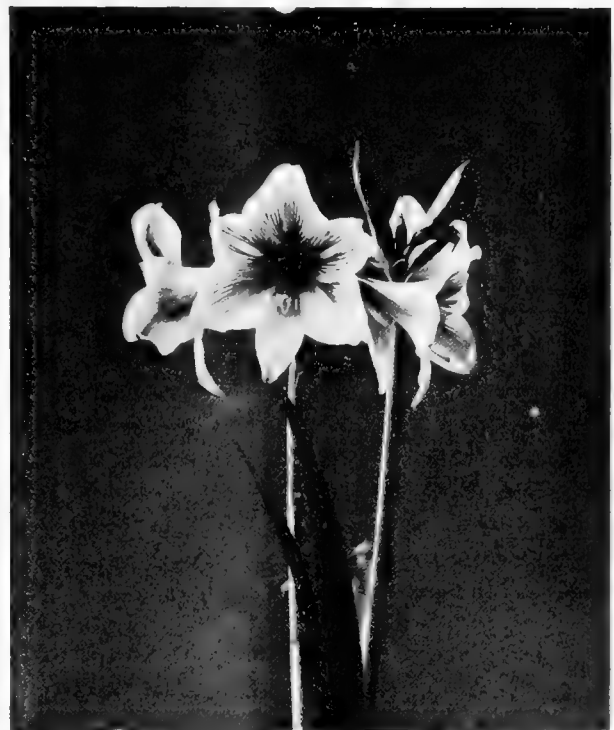
Hybrid Amaryllis

Not until recent years have hybrid amaryllises become in any way common. Excepting *A. Johnsoni*, and some of the small-flowered species, you could not look at them for less than a guinea apiece. I give English currency because they could not be bought at any price in this country fifteen or twenty years ago. About ten years ago Kenneth Finlayson, then gardener for Dr. Weld, Brookline, Mass., went to work raising seedlings with *A. aurica* as a seed parent; and obtaining pollen from a few choice hybrids he had and some from his neighbors, he succeeded in raising a very fine collection. He made a splendid exhibit of these seedlings at the opening exhibition of the Massachusetts Horticultural Society's new halls, given by and under the direction of Prof. Sargent of Brookline, Mass., during the first week of June 19, 1901. To hold back such a superb exhibit so late in the season was a wonderful achievement.

Up to this time, it seems hardly any one had thought of raising seedlings; though they might have done so, for it was well known that Veitch raised them from seed—no easy matter in the English climate. But many things Veitch did it was thought impossible others could do; and somehow the notion was that it was too intricate a matter and required lots of waiting-patience.

About this time I happened to be on a visit to the late Wm. Robinson, then gardener to F. L. Ames of North Easton, Mass. He was no less proud of a dozen new amaryllis, than of his finest orchids; and, remembering I had then some blooms of *A. Johnsoni*, I begged a small quantity of pollen from some of his best.

It was done up in oil wax paper, put in my coat pocket,



and forgotten. Better late than never, I found it five days afterwards and used it, with the result of a good set of seed. The seedlings bloomed, some two, and most three years after, giving considerable variety, but no blooms up to the standard in size. Shortly after, the late H. H. Hunnewell of Wellesley imported a set of Veitch's best. Later an extra special set of new colors, from unnamed seedlings was sent, making an unequalled collection, where the finest white striped varieties were well represented. The accompanying

illustration is from a photograph of a seedling of this type. My predecessor, the late F. L. Harris, crossed a number of them but they did not bloom until my time. Since then we have raised another batch from carefully crossed selected seedlings. Still another will bloom next season and seedlings, just up, in two years' time. We are continually selecting and discarding inferior varieties.

No wonder they were expensive. It would take a lifetime to work up a stock from offsets, and from many varieties it would be impossible, as they do not make any. We never think now of bothering with offsets when giving them their annual overhauling, unless the variety be an exceptionally fine one. And, even so, we would rather cross this with another good one or two—crossing the separate flowers with different kinds, tagging them to note results later.

Raising seedling amaryllis is most fascinating work. You can nearly always tell what you will get. They rarely cross themselves. There is no seed unless they are artificially fertilized; and when one notes the way the flowers develop it is easy to see that this is so. The anthers always open and shed their pollen, or it stays on and becomes old before the stigmas unfold. No doubt this is nature's way of ensuring cross-fertilization. I have never tried fertilizing the stigmas with their own pollen. It was so plain (to me) nature intended otherwise, and besides, I would rather cross them with others, believing for one thing, the constitution would be improved and by proper selection, better form and color obtained. No brush is used. The long filaments answer well as a means of conveying the anthers to the flowers we wish to cross, by just pinching them off and lightly rubbing the stigmas with the anthers. A brush, however soft is liable to injure the stigmas of any flowers. In crossing other flowers I would rather take a whole flower, or part of it and either shake the pollen in, or lay the flower on it. It is not until the stigmas are unfolded and become covered with a viscid substance that pollenizing can be successfully done.

The seed capsules ripen in about six weeks, and have to be carefully watched when the sutures begin to part, as the large winged seed quickly scatter. It is recommended to sow them soon after being ripe, but we have found seed two years old to germinate quite readily. We have been told that seeds must be planted edge down. This advice, also, we have disregarded, and found it made no difference. Seeds sown in light loam, in a warm house, come up in about a month and may be pricked off in about another month and make good plants the first season. We prick them into deep flats (4 inches), and keep them in a warm house until well established or until the summer season comes, and then place them in a good light airy house. Probably they would do as well then, outdoors, if the narcissus grub did not trouble them. They are kept growing, or at least, kept watered and green all winter. When

March comes, they are not disturbed more than to take the flats carefully apart and move the contents bodily into larger flats, using good rich soil on the bottom and sides, with a top-dressing of Clay's fertilizer. Placed in a warm house they grow very fast. Later in the season they are moved into a light airy house to ripen, and we expect to bloom the majority the following spring—less than two years from seed. They will be rested enough to get almost dry, though still retaining their foliage.

Mature bulbs—old bulbs—are usually stored quite dry—dry enough to wither up the leaves. I have become convinced, however, from experience that this severe drying is wrong and shall do it no more. They will be watered about once a week or enough to keep them slightly moist, even though they hold their leaves all winter.

In starting old bulbs into growth, a month or five weeks before flowers are wanted, they are given a good soaking and allowed to dry out. A little now and again only wets the surface and does no good, and without a good soaking after a plant in a pot once gets quite dry, it never takes water properly. After they are started, we clean off the old soil as deeply as we can, without disturbing the roots, and give them a top-dressing of good rich soil, and this with a little liquid manure will see them through the season.

J. D. Hatfield

Our Supplement

The beautiful lobelia, which is the subject of our supplement this week, is a variety of *Lobelia speciosa* originating in a chance seedling. As will be seen, the flowers are very large and full double, and in color the variety is entirely distinct from all others. It produces no seed, but propagates readily from cuttings.



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Thunias

Thunias were repotted in March. After the flowering season is over and the stems have matured their growth these plants should have a thorough resting and ripening of the stems. Therefore, since last fall they had been resting on a shelf in the rose house. There they had plenty of light and during the whole of the winter they have not received one drop of water. If potted annually they give much better results and in fact this is the proper way to grow them. Clean pots and thorough drainage are very essential. Use a compost of fibrous loam, dried cow manure and a dash of clean sand. Five or six inch pots make a convenient size. Several stems, according to size, may be put into each pot and staked neatly. The stakes keep the plants from moving until they get hold of the fresh compost.

Water must be given very sparingly until the plants get established and the young growths well above the compost. Afterwards, they require a liberal supply of water and when they have made good roots occasional waterings with liquid manure give good results. After the flowering season, when the leaves begin to get yellow, then water must be given more sparingly and should be gradually lessened until the plants are finally at rest.

After potting, as they are great lovers of moisture, we place them in the store where they get good light, plenty of heat and where they can be syringed regularly. In such a position they will produce stout, stocky stems which are sure to give a good supply of flowers.

Thunias are natives of India and are found widely distributed over the Himalayan mountains, Moulmein and Lower Burmah, and it is said by collectors that they are quite common in these regions. Several collectors report that they found them growing on trees in the damp forests at an elevation ranging from 2000 to 3000 feet. From this one would learn that thunias are epiphytic orchids, as they are said to grow on trees. Yet we have always grown them as terrestrial orchids, and we have had good results. Here is another case where it does not make much difference what the potting material is if the man with the watering pot just knows at what time, other conditions being right, to give and withhold water and stimulants. It is the same with nearly all orchids; there is so much humbug written about their being grown in leaf mould and other potting materials. The whole thing depends upon the man that waters carefully and knows by experience just the right time to supply the wants of each plant with water and stimulants.

A few years ago English growers recommended growing *Dendrobium nobile* entirely in sphagnum moss and potting them annually. A few days ago Mr. Watt from Wellesley College was visiting here and I made

inquiries about the large specimens of *Dendrobium nobile* which Mr. Butler used to grow and he told me that a neighbor had a plant that was better in every way than those Mr. Butler had grown and the strange thing about this plant is that it was grown in fibrous loam. So one can have them growing in peat, sphagnum and loam and all doing well if other conditions are right.

When travelling about in the West Indies I tried to learn as much as possible from orchids growing under natural conditions. I never could find much leaf mould about the plants and, in fact, many of them were a mass of roots clinging most tenaciously to the trees they were growing upon. There is no doubt there are many things in a tropical atmosphere that we can't produce in our greenhouses and I think there may be more nourishment got from the tropical rains than from the water which we supply our plants with. I think that with our orchids we are too sparing with light. In the forests where they grow naturally there are very few orchids found on the lower branches but they are abundant away at the tops of the trees where they can get more air and light.

Returning to our thunias, they begin to blossom about the end of May, continuing right along to July. The flowers are produced from the ends of the stems in drooping racemes and are very pretty when the plants are well grown. When the stems are full grown they attain a height of about three feet.

Thunia alba is a common kind and has been in cultivation since away back in 1836. The sepals and petals are pure white and the lip is white, veined with purple and yellow.

T. Bensoniæ is the most richly colored in the genus. It has flowers three inches to four inches in diameter, of a beautiful bright magenta purple color. It was discovered by Colonel Benson on the mountains of Moulmein in 1866. *T. Marshalliana* resembles very much *Thunia alba*. It has white sepals and petals, and the lip is white at the front, the other portions pale yellow veined with bright orange. There are several varieties of this species in cultivation.

T. Veitchiana is a hybrid between *Marshalliana* and *Bensoniæ*. The flowers are white, the tips of sepals and petals shaded with mauve and purple markings.

Thunias are probably the easiest to handle of all the orchids and if given a fair chance they hardly ever fail to produce their pleasing blossoms.



HORTICULTURE

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DEVOTED TO THE

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INTERESTS

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WM. J. STEWART, Editor and Manager.

Cactus dahlia

The Pilot

This beautiful novelty, a colored plate of which was sent out by us as a supplement with our issue of April 21, is not for sale in this country yet so far as we can learn. We have had so many inquiries from readers who wish to secure the variety that we make this announcement for general information. No doubt American dealers will be able to supply plants or tubers for next season.

A reflection

on the seed trade

We are not a little surprised at the statement attributed to Robert Veitch in his address before the New London County Horticultural Society to the effect that all vegetable seeds sold under a variety of names "come out of the same bin." We have known Mr. Veitch as florist and seedsman for a great many years and cannot believe it possible that he would make a statement reflecting so monstrously on the integrity of the seed dealers. One New London daily in its account of the meeting refers to Mr. Veitch's alleged assertion as "giving away trade secrets." Such an unwarranted imputation coming from a gentleman so well known, and widely disseminated through the medium of the public press cannot fail to do serious injury to a reputable business.

San Francisco's parks her best asset

In the multitude of arguments that have been advanced from time to time in favor of the establishment of public recreation areas in cities, none have been better founded than the one which has been so forcibly impressed upon us in the recent calamity in San Francisco. The open reservations in the devastated city, whitened with the temporary shelters of thousands of homeless people, of whom many would undoubtedly have lost their lives had the parks not existed, will stand for all time as an impressive reminder to those entrusted with the duty of providing for the protection and welfare of civic communities, of the great responsibilities they are under, for which they may be called to account without a

moment's warning. What matters the expenditure for San Francisco's parks when compared with what they meant to her suffering people in one awful night? We can all realize now how very much more than mere pleasure grounds these public domains may prove themselves to be and after such an experience neglect to make liberal provision for them, not alone on the outskirts but right in the most densely populated centres would seem almost criminal.

Extending the commercial cut flower list

Anyone who has followed the course of the wholesale flower markets for a year or two past must have noticed the great increase in the sale of flowers once classified as "odds and ends" but which have now reached the dignity of steady values per hundred bunches and are regularly called for in the better-grown grades by the leading retail stores, where they are considered an essential part of the everyday supply. We allude to myosotis, stocks, pansies, snap dragons, coreopsis, daisies white and yellow, etc., and might include even sweet peas which although now carried in hundred and thousand lots in the average florists' stock were until very recently represented only by a tiny vase or two occasionally seen. A notably sudden popularity is apparent in the case of the new daisy Queen Alexandra which was extensively advertised in these columns last year as a novelty. This tendency to widen the variety in commercial cut flower stock will meet with much approval and should be encouraged by those who realize that the cut flower trade must extend its sphere beyond the rose, carnation, chrysanthemum, violet, and bulb flower group if it is to keep pace with the popular sentiment. Greater variety is the demand of the public and there is a wide range of good material available from which the responsive grower may select.

An ominous advance in express rates

The announcement of a big advance in express rates on cut flowers by one of the companies carrying quantities of flowers to the wholesale markets in New York has an ominous look and if submitted to without emphatic protest is likely to be the forerunner of an equal advance by all the other companies throughout the country. When similar action was taken by the express companies some two or three years ago, prompt work on the part of S. A. F. officials brought about a restoration of the old rates, thus saving many thousands of dollars to the flower growers and shippers. It is notorious that scant gratitude was shown by those who were the beneficiaries through this interposition in their behalf by the national society. There are, in the society's archives, scores of letters, written at that time, containing frantic appeals for relief, the writers of which have never contributed a cent to the society's support although individually invited to become members of the organization which had so signally befriended them. The name of every florist is needed to give due strength and influence to the society and every one should be willing to pay his little share of the cost of the benefits derived. Had all those who were helped on the occasion referred to shown proper appreciation by taking membership in the S. A. F. what a splendid power it would be today!

AN ECHO FROM MECHANICAL WATERING.

Editor HORTICULTURE:

Dear Sir:—To say that I am surprised at Mr. McHutchison's letter is a very poor description of my feelings after reading it. I never claimed that I had seen the device in question—I never even criticised it! I merely tried to draw the attention of readers of HORTICULTURE to the fact that mechanical watering, had been in vogue many years ago, in "the dear old land across the sea," from which the majority of the men have come who have raised horticulture in America to the high pedestal "she" occupies.

I am sorry that Mr. Finlayson's or my remarks could not "remind" Mr. McHutchison of any more vivid simile than a "dumb waiter and a modern elevator." I believe several instances could be quoted where both of these useful devices are used in the same building, said building being of the most modern construction. And right here I would like to say that I (although I have not had the pleasure of seeing Mr. W.'s device) believe "mechanical watering" backed up by the judicious use of the hose will be the "modus operandi" adopted by a majority of the larger growers in the near future. All inventors are naturally jealous of any adverse criticism of their invention, but I have yet to read or know of an invention that was perfect at the start. But when the mere stating of indisputable facts to prove that mechanical watering was going 40 years ago, prompts Mr. McHutchison to bet a large specimen of the "forbidden fruit," I trust that future criticism may be extremely mild and modified, or it will make one tremble to think what terrible indiscretions Mr. McHutchison et al. may indulge in.

CHARLES INGRAM.

LIKES MECHANICAL WATERING.
Editor HORTICULTURE:

Dear Sir:—I have noticed arguments for and against mechanical watering in your columns, and having seen the new system in operation at the Geo. Wittbold Co.'s plant, I wish to say, as a gardener, who has been in business for 45 years, that the idea has much merit and will save much labor in the greenhouse. Let us compare the idea to a sewing machine, which has done much to lessen the labors of the house wife; it will do most of the sewing; although fine needle work is still done by hand. I will equip some of my houses with the system after July 1st and shall be glad to have brother florists call and see it in operation.

WM. EDLEFSEN.

Milwaukee, Wis.

PERSONAL.

Andrew Meyer, Jr., for the past three years Superintendent of Parks, St. Louis, has been appointed City Forester, and will enter upon his duties immediately.

Miss Florence Browne Stumpp, daughter of George M. Stumpp, and Henry Mehl, Jr., were married at St. James' Church, New York City, on Wednesday, April 25.

ADIANTUM EDGARII.



We present herewith a picture of the latest addition to the list of commercial adiantums. The variety appeared among the plants in a bed of Adiantum decorum and is regarded by Mr. Edgar as undoubtedly a seed varia-

tion of that species, which it resembles in all respects excepting size which is very much larger. It is considerably larger than Adiantum Croweanum fronds measuring 36 inches in length having been produced. The photograph shows a plant eighteen months old.

CITY LIFE.

(Written for the Country Gentleman by Marie A. Drew.)

I own nothing of all I survey,

My right here all seem to dispute;
From the Harlem clear down to the bay,
There's no room for a fowl or a shoot.
Oh, city life! What are the charms
That millions can see in thy face?
Better dwell in the poorest of barns
Than live in this horrible place!

I am right in humanity's reach,

Not a foot can I journey alone,
Never hear the sweet music of speech,
(For a week I have not heard my own);
The people that rush through the streets

My form with indifference see;
The girls jostle wherever we meet,
Their boldness is shocking to me.

Fresh butter, fresh eggs and sweet cream,

Divinely bestowed upon man,
Oh, had I a flying machine,
How soon would I taste you again!
My hunger I then might assuage
With food that was healthful to eat,
And not starve at a table d'hôte
Down here on Twentieth Street.

Now, swiftly the fire-engine comes!

To rival the speed it attains
The swift little errand boy runs,
And the hospital ambulance strains!
When I think of my native land,
With its feather beds not stuffed with hair,

And its great herds of cattle not canned,
Oh, what would I give to be there!

OBITUARY.

Abraham Hostetter, of Manheim, Pa., died on April 18, aged 57 years. He was a member of the Society of American Florists.

John C. Blair, of the firm of Blair & Kaufman, Kansas City, Mo., died on April 17, aged 66 years. Mr. Blair was a member of the firm of Blair & Kaufman, nurserymen, with offices in Kansas City and nurseries in Argentine.

William Pearce, who for many years was located at Rockaway avenue and Dean street, Brooklyn, N. Y., died at his home on April 22, aged ninety years. He was a native of Hertfordshire, England. A widow, six daughters and two sons survive him.

George H. Ellwanger of the firm of Ellwanger & Barry, died at his home in Rochester, New York, after an illness lasting for several months. Mr. Ellwanger was born in Rochester fifty-eight years ago. His father was George Ellwanger who established the nursery business to which Ellwanger & Barry succeeded. He was a scholarly writer and American horticulture has been enriched by a number of books of which he was the author, the best known of which is the "Garden's Story." His brother, the late H. B. Ellwanger, was the author of "The Rose," a book which has been the American standard on this subject for many years. The death of Mr. Ellwanger is a national loss.

NEWS OF THE CLUBS AND SOCIETIES.

AMERICAN ASSOCIATION OF NURSERYMEN.

The 31st Annual Convention of the American Association of Nurserymen will be held June 13, 14, and 15, 1906, at Dallas, Texas, in the Commercial Club rooms. The Oriental Hotel will be headquarters.

The Southwestern Excursion Bureau has announced a rate of one regular standard fare plus \$2.00 for the round trip from all points in its territory to Dallas, Texas and return. Dates of sale: June 11 and 12, 1906. Final return limit: 21 days from date of sale.

Connecting lines have been advised of the action of the Southwestern Excursion Bureau and those who are representing the Association in the matter confidently expect that rates more favorable than usual will be secured. Those who expect to attend should take the matter up early with local ticket agents so that they may have ample time to get advices.

The Secretary will be pleased to furnish later information to all who request it and are unable to gain definite advice from local ticket agents.

Under date of April 25, President Albertson writes: "Am just in receipt of word from the Frisco line that they have got concessions for our Association of the privilege of going by one route and returning by another, that is, we could go down by way of the Frisco through South Missouri and North Arkansas and return by the Rock Island through Indian Territory, Oklahoma and Kansas by way of Kansas City, with stop-over privileges going and coming. And to those wanting a further extension of their ticket thirty days extension would be granted beyond the limit, thus giving a chance for any outside trips into Mexico or California or anywhere else wanted. This is on the basis of one fare plus \$2.00 from St. Louis. If our party makes up one hundred from St. Louis they will give us a special train going down and wherever there can be a sleeping car load made up the sleeper will be run right through to Dallas if arrangements are made in advance."

The program committee suggests that the Eastern contingent meet at St. Louis and be ready to leave in a body, Monday afternoon, June 11th, the Northwestern contingent to meet at Kansas City same date and all join at a proper place and the consolidated train to arrive at Dallas, Tuesday afternoon, June 12.

The Oriental Hotel will be headquarters. Rates will be \$2.50 per day and up, American plan. Members are advised to engage rooms in advance.

One session only a day will be held, from 9 A. M. to 1 P. M. The remainder of the time afternoons and evenings to be given up to recreation and business. It is intended to arrange for excursions to the orchards and other places of note in the State.

The Fruit Banquet is expected to be given probably on Thursday night. The exhibits are expected to be ar-

ranged near the Auditorium where the sessions are to be held.

Provisional Program.

June 13th, 1906, at 9 o'clock A. M.: Calling to order, President E. Albertson of Indiana; Welcome to Texas, by Stanley H. Watson, 15 minutes; Response, by Judge Lynn of Rochester, 20 minutes; Welcome to Dallas, by Hon. John A. Ewton, Pres. Hundred and Fifty Thousand Club, 20 minutes; Response, by Congressman N. W. Hale of Tennessee, 20 minutes; Welcome to the Orchards of Texas, by Roland Morrill of Morrill, Texas, 20 minutes; Response, by J. H. Hale of Connecticut, 20 minutes; President's Annual Address, by E. Albertson of Indiana, 30 minutes; Report of Standing Committees: On Transportation, 60 minutes, On Tariff, 50 minutes, On Legislation, 30 minutes; Report of secretary; Report of Treasurer; Selection of State Vice-Presidents; Meeting of Nurserymen's Mutual Protective Association at 3 p. m.

Thursday, June 14th, 1906: "Specific Requirements of New Varieties in California Fruit Growing," Prof. Wickson, Berkley, California, 40 minutes; "The Importance and Best Methods of the Bud and Scion Supply in Propagating," C. C. Mayhew, Texas, 15 minutes; On "Credits," Geo. H. Josselyn, New York, 20 minutes; Meeting of American Nurserymen's Protective Association at 3 p. m.

Friday, June 15th, 9 o'clock A. M.: "An Uniform Standard of Grading Nursery Stock, and its Adoption," C. J. Brown, N. Y.; "Ornamentals—Their Increasing Importance, Propagation, etc.," J. Wilkinson Elliott, Pittsburgh, Pa., 20 minutes; "Commercial Fertilizers for Trees," W. F. Heikes, Alabama, 20 minutes; "Storing Nursery Stock, Dampness, Temperature, Packing, etc.," Wm. Pitkin, 20 minutes; Opening the Question Box; Report of Committee on Exhibits; Report of Committee on Resolutions; Election of Officers; Selection of Next Place of Meeting.

Just what the condition of affairs would have been had it not been for the American Association of Nurserymen is food for thought.

For the benefit of those who do not appreciate the work take the record of this year. Note this extract from a letter from President Albertson:

"We call your special attention to the reduction of 15 per cent. from second-class rates on trees in boxes in the official territory, and to the changes in minimum car-load weights in Western and Southern classifications. Also that in the Western classification bales now go at actual weight in consignments of one hundred pounds, or over, regardless of sizes of individual bales.

"By these changes in classifications there will be a very large saving in the nurserymen's freight bills, and an expansion of territory that can profitably be covered by them, and a bringing closer together of buyer and seller.

"This saving in freight probably amounting to \$50,000.00, or more, per year, as there are a number of firms to each of whom the saving will be

from \$1,000.00 to \$5,000.00 per year on box shipments in the official territory alone, while in the Western a saving of 20 per cent. on all small cars, and in the Southern a saving of 20 per cent. in minimum weight on all cars—not counting the other changes that have been made.

The Secretary's address is George C. Seager, Rochester, N. Y.

FLORISTS' CLUB OF PHILADELPHIA.

A well-attended meeting of the above club was held on the 1st inst., the main attraction being a paper on "Greenhouse Construction" by Dennis T. Connor, the Philadelphia representative of the Lord & Burnham Co. A lively discussion followed the paper and much food for thought and many wrinkles of value developed. Adolph Fahrenwald, J. L. Dillon, W. K. Harris, Edward A. Stroud, Fred Hahman, Walter P. Stokes and others took part in the discussion. Mr. Fahrenwald exhibited the cups won at the rose show in Boston and was congratulated on his success. The attraction for next meeting will be a symposium on the peony, and a preliminary discussion on the Dayton meeting in August. An exhibit of Zion House cucumber came from Wm. Robertson. The proposition to raise the dues of the club was voted down. The general opinion seemed to be that the club was giving every possible inducement to the members, and that doubling the dues would have little or no effect under the conditions.

TARRYTOWN HORTICULTURAL SOCIETY.

The regular monthly meeting of the Tarrytown Horticultural Society was held Tuesday evening, April 24th, President Mooney in the chair. Williams Scott's prize carried over from the March meeting for the best flowering plant was won by John Fetherstone of Yonkers with a beautiful plant of *Cineraria stellata*; he also carried off Pres. Mooney's prize, for the best-grown foliage plant, with a well-grown plant of caladium, and received the society's certificate of merit for an improved plant of *schizanthus*. President Mooney gave a short talk on chrysanthemums, which was followed by discussion by the members. The May meeting being Ladies' night the members are requested to make as large an exhibit of cut flowers as possible. The entertainment committee are working hard to make this a success.

JAMES BALLANTYNE,
Cor. Sec.

NEW LONDON COUNTY HORTICULTURAL SOCIETY.

On Monday evening, April 24, Robert Veitch of New Haven gave an instructive and interesting address before the New London County Horticultural Society, taking for his subject "Seeds—How to Plant and Grow Them." He explained at length the different kinds of seeds ranging from the smallest, that of the orchid, to the cocoanut, the largest, and touching upon their periods of vitality, said seeds

should never be planted when the ground was dry. Plant under a depth of earth equal to the thickness of the seed, except in the case of sweet peas, which go six inches deep.

Mr. Veitch stated that all the vegetable seed sold under such a variety of nomenclature came out of the same bin and the fancy names accounted for the difference in price. He advised buying from firms that advertise largely and have a reputation to maintain, not from commission houses.

He referred to the government free distribution of seeds as petty graft and told of getting lettuce from a package of government aster seed. A fortune is waiting for the man who can produce bulbs in the United States which now have to come from Holland and Mr. Veitch predicted that British Columbia was destined to become the seed growing region of North America, although California was now doing such a large share of seed producing.

A vote of thanks was given Mr. Veitch at the end of the meeting, which closed after he had answered a number of inquiries from the audience.

PASADENA GARDENERS' ASSOCIATION.

The regular meeting of this association was held at the G. A. R. hall, Friday, April 20. J. C. Vaughan, who was present, spoke of the usefulness of the flower show, school gardening, flower carnivals, etc. The silver cups and vases were then presented to the winners of the recent spring show—in all thirteen cups and five Japanese vases, besides \$97.50 in cash. Before the close of the meeting the subject of a relief fund for the San Francisco sufferers was brought up and the association subscribed \$25; in addition there was handed in from individuals \$28.50, making a total of \$53.50. The meeting closed with refreshments and a few remarks from the visitors.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

President Kasting has appointed the following gentlemen to serve as state vice-presidents for the year 1906:—

- Alabama—Hugh Seale, Birmingham.
- California—P. Ferrari, San Francisco.
- Colorado—J. A. Valentine, Denver.
- Connecticut—G. X. Amrhy, New Haven.
- District of Columbia—Geo. C. Shaffer, Washington.
- Delaware—Chas. Simon, Jr., Wilmington.
- Florida—C. D. Mills, Jacksonville.
- Georgia—J. E. Jackson, Gainesville.
- Illinois, S.—J. F. Ammann, Edwardsville.
- Illinois, N.—Leonard Kill, Chicago.
- Indiana—Theo. A. Dorner, Lafayette.
- Iowa—Rov F. Wilcox, Council Bluffs.
- Kansas—Chas. P. Mueller, Wichita.
- Kentucky—Fred Louis Schulz, Louisville.
- Louisiana—P. A. Chopin, New Orleans.
- Maine—Albert Dirwanger, Portland.
- Maryland—William Weber, Oakland.
- Massachusetts, E.—W. N. Craig, North Easton.
- Massachusetts, W.—H. C. Schmeiske, Lenox.

Michigan, N.—Henry W. E. Goetz, Saginaw, West Side.

Michigan, S.—J. F. Sullivan, Detroit.

Minnesota—C. A. Clauson, Albert Lea.

Missouri, E.—Fred H. Meinhardt, St. Louis.

Missouri, W.—Samuel Murray, Kansas City.

Nebraska—Lewis Henderson, Omaha.

New Hampshire—Benjamin Chase, Derry.

New Jersey—John Birnie, West Hoboken.

New York, W.—Geo. W. McClure, Buffalo.

New York, E.—W. H. Siebrecht, Astoria, L. I.

North Carolina—James M. Lamb, Fayetteville.

Ohio, N.—C. J. Graham, Cleveland.

Ohio, S.—J. A. Peterson, Westwood, Cincinnati.

Oregon—James Forbes, Portland.

Pennsylvania, W.—Gustav Ludwig, Alleghany.

Pennsylvania, E.—Leo Niessen, Philadelphia.

Rhode Island—S. J. Reuter, Westerly.

South Carolina—C. A. Moss, Spartanburg.

South Dakota—E. C. Newbury, Mitchell.

Texas—Harry Donnelly, Dallas.

Virginia—Lloyd G. Blick, Norfolk.

Washington—L. B. Burkett, Tacoma Park.

West Virginia—Gustav Obermeyer, Parkersburg.

Wisconsin—W. A. Kennedy, Milwaukee.

Wisconsin—F. C. Smith, Ashland.

Ontario—J. H. Dunlop, Toronto.

Manitoba—H. E. Philpott, Winnipeg.

WM. J. STEWART, Secretary.

Department of Plant Registration.

The Conard & Jones Company, West Grove, Pa., submits for registration H. P. Rose, Charles Wagner; habit vigorous; color, bright red, closely approaching scarlet; flowers large and double, and of excellent substance; fragrant, profuse bloomer; the foliage is large, dark green, and thick. It is entirely hardy.

W. J. STEWART, Secretary.

NOTES FROM THE TWIN CITIES.

Gardening is in evidence all over Minneapolis and St. Paul, and according to indications our landscape artists are out-doing themselves in improving their work of past years. Many citizens seem to be a little impatient at the delay in the parks, but it is possible that this impatience is augmented by the stir of preparations for the National Encampment of the G. A. R. which is to be held in Minneapolis next August. There are to be several fine floral pieces in the parks in honor of the old soldiers who are coming to visit us. These pieces will be emblematic of the American flag, G. A. R. badges, and other reminders of peace and war. Nothing is too good for the "boys of '64," and we will all do our best to show them that we fully appreciate the work they did for our glorious Homeland.

I often hear your paper well spoken of hereabouts and I trust it is making satisfactory progress. I certainly appreciate my copy greatly.—A. P. H.

A VACUUM SYSTEM IN GREENHOUSE HEATING.

Read before the Detroit Florists' Club by Frank A. Simonds.

(Continued from Page 472.)

The ordinary gravity return system, as this medium has usually been installed under, is, if put in properly, a very good system as compared with the other systems mentioned. Although open to the same objection of the low setting necessary of the boiler, or a trap system for returning the water of condensation of the boiler. There is also the trouble of the coils becoming air or water bound, to the detriment of the radiating surfaces and a reduced amount of heat liberated as a result.

The steam heat usually carried in such system, being considerably above the atmospheric pressure, is often more than is necessary in moderate weather, and one of the principal objections on this account is that a coil must be full of steam, or entirely shut off, as, if an attempt is made to only partially fill the coil with steam in order to moderate the heat, that coil will gradually fill with water from the condensation remaining in it, or other water from other parts of the system backing up into it, as the pressure in that particular coil, under this condition, is less than in the balance of the system, and the water in it will not flow against the heavier pressures in the balance of the system.

While the heat can be increased to a certain point above boiling water in the gravity system according to the pressure carried, there is still a limit to this, as if carried beyond this pressure limit trouble is encountered in returning the water to the boiler.

It is, however, necessary to have a temperature of 212 degrees at least, in the heating coils under this system, in order to free the system from air which must be forced out against the atmosphere, and necessarily must have a pressure equal to it, or a little above, to do so. This temperature is often more than required, but cannot be reduced without shutting off entirely the heating medium.

One very strong point in favor of steam heat being that, in case of overheating, artificial heat is not needed, the system will cool down in a very short time after steam is shut off the coils.

From these analyses of hot water, and gravity steam, as a medium for this service, there are found to be good and bad points in each; while water can be used through a wide range of temperature and is flexible in this way to the ordinary demands of outside temperature, it is slow to respond to emergencies, whereas steam will respond quickly to urgent demands, but has no very wide range of temperature and nothing below 212 degrees, and cannot be used to heat less than full coils at a temperature of 212 degrees, showing no flexibility in that way.

A perfect system of heating, that will conform to the requirements of flexibility and demand, and one that will, on account of such features, secure practically a uniform temperature in the space to be heated, must necessarily combine the most important points of these two systems and

LUDVIG MOSBÆK, ONARGA, ILL.

Cash with Order. Per 1000 100

Ageratum , St. Guernsey, 2 in. \$15.00 \$2.00		
Alternanthera , red and yellow, 2 in.	15.00	2.00
Alternanthera , red and yellow, R. C.	5.00	.60
Alyssum , Sweet, giant and dwarf, 2 1-4 in.	15.00	2.00
Asparagus , Pl. Nana, 3 in., \$5.00; 2 1-4 in.	2.50	
Spreng, 3 in., \$5.00; 2 1-4 in.	2.50	
Begonia , Vernon Comp., 2 1-4 in.	20.00	2.50
Caladium , Esc., 1st size, large 10.00		
" " 2d siz., good 5.00		
" " Fancy leaved, per dozen, \$2.00		
Cobæa , fr m soil, \$1.50, 2 1-4 in.	25.00	3.00
Coleus , standard and fancy, 2 1-4 in.	15.00	2.00
Coleus , standard and fancy, R. C.	6.00	.75
Dahlias , Henry Patrick, white; livoni, pink; Snow Clad, dwf. white, and 20 other best varieties; divided field roots.	5.00	
Dusty Miller , Cent. Gymn. 2 in.	2.50	
Dusty Miller , Cinerar. Marit. 2 in.	2.00	
40,000 Ferns , Boston and Piersonii, 2 1-4 in.	37.50	4.00
" Same, 3-in.	75.00	8.00
" " 4-in.	140.00	15.00
Ferns , Piersonii Elegantissima, per dozen, 2 1-4 in., \$3.00; 3 in., \$5.00; 4 in., \$10.00		
Feverfew , Little Gem, 3 in., \$5.00; 2 1-4 in.	20.00	2.50
Fuchsia , ass't, 2 1-4 in.	20.00	2.50
40,000 Geraniums , Nutt and Standard var., 2 1-4 in.	22.50	2.50
20,000 Geraniums , Nutt and standard var., 3-in.	45.00	5.00
10,000 Geraniums , Ivy leaved an Trego, 2 1-4 in.	2.50	
Heliotrope , in var., extra fine, 2 1-4 in.	18.00	2.00
Lautana , ass't, 2 1-4 in.	2.50	
Lemon Verbena , 2 1-4 in.	2.50	
Lobelia , C. o. p., fine bushy, 2 1-4 in.	15.00	2.00
Lobelia , Speciosa, trail, strong, 2 1-4 in.	15.00	2.00
Maurandya , climbing, 2 in.	2.50	
Myrtle , creeping, hardy, evergreen, 2 1-4 in.	2.50	
Nasturtium , dwf. and tall, sep., 2 1-4 in.	15.00	2.00
Pansies , Florists' Intern., trpl. 6.00		.75
" " " in bloom 10.00		1.25
10,000 Pennisetum Rupelianum , Fountain Grass, 2 1-4 in.	20.00	2.50
10,000 Pennisetum Rupelianum , from soil	8.00	1.00
Petunia , Kansas White, Snow-storm and ass't, 2 1-4 in.	20.00	2.50
Petunia , same, 3 in.	5.00	
" single, in expensive var., mixed, 2 1-4 in.	2.00	
20,000 Salvia , ass't., 5 standard var., 2 1-4 in.	18.00	2.00
Smilax , seedlings. ....	.50	
Swainsona Alba , 3 in. \$5.00; 2 1-2 in.	2.50	
20,000 Verbena , sep., white, pink, blue, crimson, scarlet and mix., very fine, 2 1-4 in.	18.00	2.00

20,000 Verbena, same, trpl., from soil, per 100. \$1.00
10,000 Vinca Var., 2 in. \$2.00; 2 1-2 in. \$3.00; 3 in. \$5.00; 4 in. \$8.00 per 100

VEGETABLE PLANTS.

Cash with Order. Per 1000 100

200,000 Asparagus, Conn. and Palmetto, 1 year old, strong \$2.00 \$.50
100,000 Horse Radish Sets 2.00 .50
100,000 Rhubarb, Linnaeus and Victoria, fine stock, div. roots. 40.00 5.00

PLANTS FROM SOIL.

Alternanthera, red and yellow. 1.00
Cobæa, trpl. 1.00
Dracena Indivisa, trpl. 1.00
Heliotrope, from sand. 1.00
Kenilworth Ivy. 1.00
Lobelia, dwf. and trailing, trpl. 1.00
Maurandya, trpl. 1.00
Nasturtium, dwf. and tall, trpl. 1.00
Pennisetum Rupelianum, trpl. 1.00
Petunia, single. 1.00
Salvia, trpl. 1.25
Verbena, white, pink, scarlet, crimson, blue and mixed. 8.00 1.00

PERENNIAL PLANTS

From 2 1-4 in. Pots.

Aquilegia. 2.00
Candytuft Semperviv. 2.00
Coreopsis Lanceolata Grfl. 2.00
Delphinium, in var. 2.00
Eryngium Amethystum. 2.00
Forget-me-not. 2.00
Gaillardia Grandiflora. 2.00
Gypsophila Paniculata. 2.00
Lavender, trpl., from soil. 1.00
Oriental Poppy, red. 2.00
Pink, Chinese. 2.00
Pink, hardy, in var. 2.00
Tritoma Pittserii. 2.00
Yucca Filamentosa. 2.00

For other varieties, see Wholesale List.

30,000 CANNAS.

From Pots. Special Prices

Per doz. 100
Robusta, bronze-leaved.70 4.00
A. Bouvier, rich crimson.70 5.00
Chas. Henderson, bright crimson.70 4.50
Florence Vaughan, yellow, red dots. 5.00
Burbank, yellow, red spots. 4.00
Mixed, green leav d. 3.00
" bronze leaved. 3.00

See list for 25 other varieties.

STARTED PLANTS,

Ready to Pot or Plant.

Per doz. 100
Robusta.35 2.00
Chas. Henderson.50 3.00
Florence Vaughan.50 3.50
Burbank.35 2.00
Mixed, green and bronze leaved.35 2.00

be free, as far as possible, of the objectionable features.

As may be learned from any steam table in a text book, water will boil or vaporize at 212 degrees at the sea level and at atmospheric pressure, and at 98 degrees in a perfect vacuum. It follows that if confined in a vacuum of any degree between these two points, water will boil, or vaporize at a corresponding temperature.

In the simple or ordinary vacuum heating systems, the steam after condensing in an ordinary radiator or coil is discharged as water from that coil through a vacuum valve that is supposed to only allow the water of condensation and the air to escape. This discharge is into a partial vacuum, as the entire return system is under this partial vacuum and is produced by a vacuum pump at the end of a return line.

As, even when heating under steam at atmospheric pressure, this water of condensation has 208 to 210 degrees when discharged through this vacuum valve into the partial vacuum, and as water at 202 degrees will vaporize under a vacuum of five inches (or 2 1-2 inches negative pressure), it follows that this water still has heat enough to allow at least a part of it to vaporize when traveling along these return pipes toward the vacuum pump; as a result, a jet of cold water is injected into this return pipe just before it reaches the pump in order to condense this re-evaporation and so allow the pump to handle it.

Now, in condensing this vapor the units of heat in it have to be destroyed by the jet of cold water, and all the benefit derived from such loss of heat is in allowing the pump to continue the vacuum by handling this vapor; advantages of the vacuum system are enough to warrant this extravagance, and with a vacuum system, it has always been considered absolutely necessary to indulge in such.

To secure a further economy in utilizing the units of heat in radiating surface, that are destroyed by the jet of water in the simple system, by conducting the water of the condensation through a secondary coil, or radiator, that contains the same partial vacuum as the return system we can utilize the heat of this vapor in giving out heat to this secondary coil; this coil acting as a surface condenser in doing the same work as the cold water under the other plan. After this re-evaporation is again condensed, it passes to the vacuum pump as solid water.

With such a system it is not necessary to carry any steam pressure on heating system, as when the weather is moderate, steam at one-half pound to one pound below atmosphere can be carried, or even lower, and a perfect circulation secured at a correspondingly lower heat. The vacuum pump always removes the air and water at any reasonable pressure below atmosphere it is desired to operate it under, so that every square inch of radiating surface is heated surface. The steam mains can be considerably smaller than for gravity steam, or for hot water. The returns are very much smaller than with either steam or water systems.

It is not necessary to carry return pipes back under ground, as they can, as well, be carried overhead. No air valves are needed.



In case of emergency, steam at any pressure up to twenty-five pounds (265 deg.) can be used and can be secured on a moment's notice, as the boiler pressure will be about that all of the time, and the pressure needed in system, regulated by a reducing valve as required; usually less than one pound pressure (212 deg.). The temperature of secondary coil is from 170 deg. to 195 deg., according to vacuum carried.

Such a system allows of controlling the heat in any or all coils, as desired, as it is not necessary to have the entire coil either entirely free of steam or completely full as, the vacuum pump keeping the coils free of air and water, the steam valve can be opened to admit only sufficient steam to heat as much or little of the coil as desired, and this will continue as long as these conditions exist.

An automatic heat regulator will give much closer and more economical results than can be possible by hand regulation. Also, being on guard all of the time, such an apparatus is always ready to take care of any conditions that may come up, and owing to the quick change secured by the steam in the radiating surfaces, an approximately uniform temperature is secured, according to the temperature the thermostat is set at, in the room.

The sun may break through the clouds fifty times a day and give sufficient heat for a few minutes' time that would result in overheat if the artificial heat was used at the same time, with an automatic regulation. However, this heat is shut off before any overheating takes place, and remains off as long as the temperature is maintained by this outside source.

To better illustrate the economy in automatic heat regulation, it is only necessary to consider that as ordinarily figures, the radiation in any building is considered ample to heat that building to a certain temperature when the outside temperature is zero, or even ten degrees below zero. And while in reality such conditions do not exist very many days and oftentimes the outside temperature is very moderate for days, during which time the entire radiation is not needed, it follows that all of the time any part of it is shut off, the demand on the boiler is reduced that much, and a corresponding decrease in coal should result.

The thermostat acts as a very reliable servant, who keeps close watch of the thermometer, and when the proper temperature is secured, immediately closes the steam valves on the coils, allowing them to remain closed until the thermometer shows the temperature to be dropping, when these valves are opened again. With these vacuum systems the boiler can be set on the ground level, or even above, if desired. Everything can be made automatic, as both pumps and dampers can be controlled mechanically, to conform to the conditions giving the best results.

INCORPORATED.

Trinidad Floral Company, Trinidad, Co., capital \$10,000. H. Klein, president; L. R. Gottlieb, secretary.

The Maine Nursery Co., Hampden, Me. President, F. L. Temple; secretary and treasurer, Frank H. Damon; directors, Henry W. Mayo, M. Farnham and H. C. Whittemore.



PIONEER GUARANTEED NURSERY STOCK AT WHOLESALE PRICES.

All stock guaranteed disease free and true to name.

Hart Pioneer Stock is pure bred and produces heavy crops. Value received for every dollar sent us. No Agent's Commission. WRITE FOR COMPLETE PRICE LIST. WE WILL SAVE YOU MONEY.

HART PIONEER NURSERIES, Established 1865. **Fort Scott, Kan.**

John Waterer & Sons, Ld. AMERICAN NURSERY BAGSHOT, ENGLAND

have the finest stock of recognized **Hardy Rhododendrons, Azaleas, Andromedas**, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

John Waterer & Sons are the **great exhibitors of Rhododendrons in London.**

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A very fragrant, white flower with dark green foliage, suitable for all decorations. We guarantee time and condition of arrivals. 75 cts. per 100, \$6.00 per 1000.

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H O T H O U S E G R A P E V I N E S,

fine strong, two and three year old canes, Black Hamburg, Muscat Alexandria and other varieties.

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NEW ROCHELLE, N. Y.

Geraniums, red, white and pink, 4 in. pots,	\$7.00
Cannas, Mad. Crozy, Alph. Bouvier, Egan-	
dale, Italia, Queen Charlotte.....	8.00
Scarlet Sage, 4 in. pots.....	7.00
Centauria Gymocarpa and Candidissima,	
3 in. pots.....	5.00
Verbenas, 2½ in. pots.....	2.50
Petunias, 2½ in. pots.....	2.50
Double Petunias, 5 in. pots, fine.....	5.00

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Meadowvale Farm
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HAS UNDER CULTIVATION

OVER 100 ACRES

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The Best Mixtures, Collections
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grown and collected seeds and seedlings.

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McMINNVILLE, TENN., R. F. D. 2

Dahlia Roots and Plants

DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc.
ATCO, N. J.

THE GLADIOLUS.

Cultural Instructions and Care of the Cut Flowers.

(We are indebted to H. H. Groff, the gladiolus specialist for the following practical directions.)

The gladiolus is not exacting in its demands upon the soil. I have grown it on one block of land yearly for over fifteen years, the only fertilizer used being well-rotted stable manure and hard wood ashes applied before ploughing in the autumn. No fertilizers are needed on strong new soils as a rule.

Profuse watering at intervals is desirable where local peculiarities of soil and limited rainfall prevail during the season of active plant growth and blooming. A brief period of ripening before the latter season is beneficial, if not too severe, as this hardens the plant tissues and assures flowers and spikes of increased durability and quality. Excessively succulent growth is not beneficial to plant, flower or corm.

For best results, plant in full exposure to the sun, in locations having a free circulation of air, avoid crowding by other plants or overshadowing by trees, buildings or hedges. Plant from two to four inches deep according to the size of the corms,—matured corms never less than four inches,—two to four inches apart in double rows, which may be made as close as twelve inches in beds or borders. The greatest satisfaction is secured by growing several thousand in the vegetable garden for daily cutting as the first flowers open.

Dig the corms before the ground freezes, cut off the stalk close to the corm and store in a cool dry place, in baskets or shallow boxes. The old corm may be removed a few weeks later when convenient. It is not necessary to wait until the plant dies down before harvesting the corms, as a few weeks after blooming is sufficient to mature both for this purpose.

As our whole interest centres in the beautiful flowers of the gladiolus,—which for beauty and diversity in the whole range of color have no equals in horticulture, and their durability when cut for table and other decorative purposes is unexcelled in their season:—here, it is well to be fully informed as to the treatment that will ensure the best results.

Cut the spike when the first flower opens and place in water without overcrowding. Remove the terminal buds soon, as this checks stalk development and throws the strength into the larger and earlier maturing flowers. The end of the stalk should be shortened and the water renewed daily with frequent cleansing of the vases. In shortening the stalk cut diagonally, to insure free absorption of water by the spike without the contamination and obstruction, caused by the sediment, if cut at a right angle.

The fact that blooming the spikes in the shade of room or piazza modifies the field colors, from bright shades and tints to delicate flushes and shadings, and also reduces the latter types to the faintest tinge of color or white, is well known to experienced growers.

The advent of the new hybrids producing the most intense and deep shades of violet, purple, crimson and scarlet, as well as new yellows and

other bright colors, makes it desirable that these brilliant combinations be preserved when the spikes are cut for decorative purposes.

To ensure this most desirable result, place the vases of these highly colored types in the early morning sun for an hour or two daily, preferably after renovation and renewal of the water. This practice will also enable the retention and normal presentation of the original delicate tints and shadings referred to in the preceding paragraph, if so desired.

As it takes about three days after cutting to bring the spikes into strong blooming condition, this should be allowed for in advance of the date of intended use. The spikes can be shipped a thousand miles by standing them on end in suitable baskets or boxes. On arrival, cut off the end of the stalk, and remove the terminal buds before placing in water, they will then revive quickly and with proper care give pleasure for a week or more.

One of the causes of the popularity of the gladiolus as a decorative flower, is the fact that it has no perfume, as there are few flowers used for this purpose that are not distasteful to some one,—particularly in closed rooms—either from personal preference or painful association.

Where the pollen proves irritating to the tissues of the respiratory organs, as in the case of hay-fever subjects, the anthers may be easily pinched out during the daily renovation, when the faded florets are also removed. This removal of the anthers is desirable in the highly colored types referred to, where the shed pollen dulls the brilliancy of the petals on which it may fall.

BUSINESS CHANGES.

Boyle Bros. have purchased the establishment of Peter Boll at Malden, Mass.

Charles S. Stout has purchased the greenhouse and business of E. J. Gove, Biddeford, Me.

Frank Cramer of Stuyvesant, N. Y., has leased the greenhouses of James Purcell at Valatie, N. Y.

William C. Smith & Co. have purchased the brokerage business of Pilcher & Burrows, St. Louis, Mo., and will conduct it on the same lines as heretofore.

GREENHOUSES BUILDING AND PROJECTED.

Lynn, Mass.—Frank Dolansky, additions.

Lancaster, N. Y.—A. Schnabel, one house.

Milwaukee, Wis.—Nic Zweifel, two houses.

Tewksbury, Mass.—George Foster, one house.

South Portland, Me.—J. W. Minot, one house.

Chiselmhurst, N. J.—Fred Bauer, one house, 27x100.

Sterling, Ill.—The Sterling Floral Co., one house.

Baltimore, Md.—B. S. Merritt & Co., two houses, 30x125.

Brockton, Mass.—L. D. Baldwin, additions to present houses.

West Manchester, Mass.—Stephen V. R. Crosby, one house, 20x80.

Asparagus Plumosus Nanus

Greenhouse Grown Fresh Picked Seed
100 Seeds 60c. 1000 Seeds \$4.00
500 " \$2.25 5000 " 19.00
10,000 Seeds \$36.00

PRIZE PRIMULA SEEDS SOW NOW.

Will make splendid plants in bloom for FALL sales.

	Trade Price	Per Pkt.
Primula sinensis, pure White, \$5.00	\$1.00	
" " Brilliant Red, .60	1.00	
" " Holborn Blue, .60	1.00	
" " Crimson, .60	1.00	
" " Pink, .60	1.00	
" " Mitchell's		
European Mixture, .60	1.00	

This is the finest mixture procurable composed of the choicest separate colors on y.

Primula obconica, Red, .50	\$0.30
" " Rose or Pink, .30	.30
" " pure White, .30	.30
" " Hybrid Mixed Colors, .40	.40
" " Fimbriata Choice Mix'd, .50	.50

For Seasonable Seeds and Supplies please refer to our Wholesale List mailed free on request to all florists.

HENRY F. MICHELL CO.
Seed Importers and Growers
1018 Market St., Philadelphia, Pa.

NEWS NOTES.

George Leadley, of 245 Woodward avenue, Detroit, Mich., lost about \$300 by a fire on April 15.

The Charles A. Shaeffer Floral Co., of Kansas City, Mo., has assigned to W. W. Filkins, a creditor.

H. D. Hemenway, formerly of the School of Horticulture, lectured in Jewell Hall, Hartford, Conn., on April 23, on "Gardens and How to Plant Them."

The sum of \$250 has been given as a trust fund for the establishment of a botanical prize at the high school, New Haven, Conn., in memory of Miss Mary A. Marshall, who was at one time a teacher in the school.

James McManus has moved from West 30th street to 42 West 28th street, New York, where he has fitted up one of the most complete wholesale flower establishments in the city. This makes seventeen wholesale florists in the 28th street group.

C. Betscher writes us that he has now the most representative collection of peonies in the world, embracing the combined lists of all the native and foreign specialists—all the species and over twelve hundred named sorts. He will make a big display at the Boston exhibition next June.

McHutchinson & Co. of New York City have again found it necessary to increase their space and have moved from Fulton street to 17 Murray street. This is the fourth time this enterprising firm have been forced to seek new quarters and each time they have doubled their space.

SEED TRADE NOTES.

By a vote of 153 to 58 the House of Representatives decided on May 1 to continue the free distribution of flower and vegetable seeds.

It was a memorable and impressive scene in the House of Representatives in Washington. The roll-call was finished and the result was announced. A member jumped on his desk and emitted a strident shout of triumph. Instantly he was joined by a hundred others, and a tumult broke forth such as no other incident of this session has called forth in the House. The members pounded their desks, cheered, stamped, clapped their hands and roared their satisfaction that the iniquitous seed trust had been foiled again, and the suffering farmers would not be cut off from their supply of congressional graft seeds. As one member put it, this is the only graft of which everybody could have a piece. It was a great day for cheap demagoguery.—Boston Herald.

The L. E. Archias Seed Co., of Carthage, Mo., went into voluntary bankruptcy on April 19. Liabilities are placed at \$12,000 or \$13,000, \$8,400 of which is owed to the banks of the city. Mr. Archias places his resources at \$15,000 or \$16,000.

W. C. Heller & Co., whose mice-proof seed cases have been such a boon for the seedsman and for the florist or gardener who use seed, announce the removal of their plant from Montclair, N. J., to Montpelier, Ohio, the change being made necessary by the increased demand for their products. They announce that they will hereafter carry a large stock of steel shelf boxes, cabinets, etc., and can fill orders the same day as received.

ARE YOU GOING... TO BUILD

I am interested in a glass factory. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted. Attractive figures are offered in all sizes, but for anyone who can use the smaller cuts such as 8 x 10, 10 x 12, or 10 x 15, a specially favorable opportunity is open at present on account of a surplus. Don't wait. Higher prices will prevail soon.

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ARE CELEBRATED FOR
Hardiness, Purity and Permanency

Specially blended to suit all conditions of soil for Meadow, Pasture, Lawns, Golf Links, Putting Greens, Tennis Courts, Terraces, Embankments and Shady Spots.

Samples and Prices Upon Application
STORE HOURS: 7.30 A. M. TO 6 P. M.

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Seedsman, Nurserymen and Florists
6 & 7 SOUTH MARKET ST., BOSTON

Garman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse.
Nonpoisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. \$1.50 per gallon. Also in quart, half gallons and in bulk. Send for circulars.

PERFECTION CHEMICAL CO.,
Flushing, N. Y.



SAVE THE BLOOMS!
NIKOTEEN
DOES NOT INJURE SENSITIVE PLANTS. USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT.
200 POUNDS TOBACCO IN ONE PINT NIKOTEEN.

Nicotine Mfg. Co., St. Louis, Mo.

VEGETABLE PLANTS

Cabbage, Wakefield & Early Summer	\$1.00 per 1000
Tomatoes, 8 var. fine Plants	2.00 " "
Cauliflower, Snowball & Erfurt	2.50 " "
Sweet Potatoes, Red & Yellow	1.25 " "

J. C. SCHMIDT - BRISTOL, PA.

Thorburn's Seeds

SEEDS of STAR PRIMROSE—varieties *stellata*, White, Crimson and Blue, each per 1-12 oz., \$1.00.

BEGONIA VERNON MIXED at \$1.50 per oz.

ASPARAGUS PLUMOSUS NANUS at \$4.00 per 1000 seeds. And all other new and choice seeds for florists.

CYCAS REVOLUTA STEMS just arrived from Japan. Sizes and Prices on application.

LILIUM HARRISII

LILIUM LONGIFLORUM

Price on application

J. M. THORBURN & CO

36 Cortlandt St., New York

QUALITY SEED BULBS PLANTS

SEND FOR CATALOGUE.

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WRITE FOR PRICES.

COCHRAN MUSHROOM & SPAWN CO.
911 CHEMICAL BLDG. ST. LOUIS, MO.

HELLER'S MICE-PROOF SEED CASES.



Send for Circulars.

Heller & Co., Montpelier, O.

Burpee's Seeds
PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

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FOR PROMPT SHIPMENT

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KILLS SAN JOSE SCALE

Made by HAMMOND'S SLUG SHOT WORKS. Fishkill-on-Hudson, N. Y.

SOLD BY SEED DEALERS OF AMERICA.

Glenside, Pa., March 31, 1906.

HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.

Gentlemen:—Seeing "Horcum" mentioned in Monthly Bulletin of Div. of Zoology, Penna., I would thank you to inform me where I can get a supply, say about a gallon for trial.

The San Jose Scale is very bad around this section and could no doubt push sale of the solution, especially as it is spoken of so highly in above Bulletin.

Your early reply will oblige. Yours respectfully,
P. S. Glenside is twelve miles from Philadelphia.

H. J. HINDS.

GRAFTED ROSES

KILLARNEY

and all of the leading varieties. One hundred and thirty-six thousand rose plants grafted this year. Read our list:

Grafted Stock. From 2½ Inch Pots.

KILLARNEY. \$20.00 per 100; \$150.00 per 1,000.

Richmond. \$25.00 per 100; \$200.00 per 1,000.

Rosalind Orr English. \$20.00 per 100; \$150.00 per 1,000.

Etoile De France. \$20.00 per 100.

Wellesley. \$20.00 per 100; \$150.00 per 1,000.

Liberty. \$20.00 per 100, regardless of number ordered.

The above varieties on their own roots, from 2½ inch pots, very fine plants, re-potted from 2 inch pots.

Killarney. \$10.00 per 100; \$90.00 per 1,000.

Richmond. \$15.00 per 100; \$120.00 per 1,000.

Wellesley. \$10.00 per 100; \$90.00 per 1,000.

Rosalind Orr English. \$10.00 per 100; \$90.00 per 1,000.

Maman Cochet. A magnificent pink rose of Mermet type, and the best of our out door bedders, \$15.00 per 100.

RICHMOND

Standard Varieties Grafted.

Ivory. Franz Deegen. Bridesmaid. Souvenir du President Carnot. Bride. Kaiserin Augusta Victoria. Madam Hoste. Madame Caroline Testout. Meteor. La Detroit. Golden Gate. Mrs. Pierpont Morgan. Madame Abel Chatenay. Grafted from 2½ inch pots, \$15.00 per 100; \$120.00 per 1,000, for A No. 1 stock; nothing else will be sent out. The above varieties on their own roots, from 2½ inch pots, \$5.00 per 100; \$45.00 per 1,000.

American Beauty. On own roots, from 2½ inch pots, \$8.00 per 100; \$75.00 per 1,000. 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and June deliveries.

Mme. Norbert Levavasseur (The Baby Rambler). An ever-blooming dwarf Crimson Rambler. We will furnish May delivery plants of this sensational rose from 2½ inch pots, at \$2.75 per dozen; \$17.50 per 100; \$42.50 per 250.

A. N. PIERSON, CROMWELL, CONN.

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FLORIST**

McHenry Avenue, Westwood
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We are booking orders for June delivery

Begonia Gloire de Lorraine

Cuttings from 2 1-2 inch pots.

Ready for 4 inch. Price \$10.00 per 100.

Satisfaction guaranteed. Place your order now

INNES & McRAE, - Cheswick, Pa.

You Will Want a Few Begonia Gloire de Lorraine Plants.

My stock comes from an Excellent Source. Why not place your order early to secure June and July delivery?

Strong 2½ in. plants, \$15 per 100, \$140 per 1000

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Dracena Indivisa, 2½ in., 4 in., 5 in., 7 and 8 in., per doz., 75 cts., \$2.00, \$3.00, \$4.00 and \$5.00. Per 100, \$6.00, \$15.00, \$20.00, \$30.00 and \$40.00.

Vinca variegata, 4 in., 5 in. Per doz., \$1.50, \$2.00. Per 100, \$12.00, \$15.00.

Dahlias, tubers per doz., 75 cts., per 100, \$6.00.

Variegated Century Plants—prices and sizes on application. Cash Please.

E & C. Woodman, Florists, Danvers, Mass.

Cyclamen Giant Hybrids

Seed taken of exhibition stock the cream of my own strain. None better. 35,000 ready in 6 separate colors, including Salmonum, Papilio, Rococo and fringed variety, once transplanted, \$4.50 per 100; \$22.50 per 1000; twice transplanted, \$3.50 per 100. 3 in. \$7.00 per 100.

IMPATIENS HOLSTII one of the best varieties in years, being a continual blooming plant of scarlet flowers, excellent for pot culture as well as for bedding, sells on sig t. From pots, \$3.00 rooted cuttings, \$1.50 per 100. Try it, and you won't do without it.

CHRIST. WINTERICH
Defiance, O.

Some People have taken our advice as published in these columns recently and are buying **My Maryland** for trial. We reiterate here—if it succeeds with you as it does with us, it will prove the best white carnation you ever grew. Despite the variety's apparent failure in several places, we strongly advise all growers to give it a trial. We have been frank about its faults as developed in other places. We doubt if these will develop in many places.

Jessica we believe, will succeed generally and will prove to be the best red and white variegated ever disseminated. Few varieties show as strong constitution as this one does and it is a wonderful producer. Extra fine stock of both varieties ready now. R. C., \$2.50 per doz., \$12.00 per 100; \$100.00 per 1000. Pot plants, \$3.00 per 100 extra.

Send for our catalog, now ready.

The H. Weber & Sons Co., Oakland, Md.

SALVIAS, 3 in. In Bud and Bloom . . . \$2.00 per 100
LOBELIAS, 3 in. " " " " . . . 3.00 " 100
VERBENAS, 2½ in. " " " " . . . 1.50 " 100

SINGLE FRINGED PETUNIAS, Transplanted, 70c. per 100, by mail, \$5.00 per 1000, Ex.

VICTORIA ASTERS, Transplanted, 50c. per 100 by mail, \$3.00 per 1000, Ex.

PANSIES, Best Strain, Transplanted, 60c. per 100 by mail, \$3.00 per 1000, Ex.

C. WHITTON, City St., Utica, N. Y.

100,000 GERANIUMS IN 10 BEST VARIETIES

Finest stock in the country, strong, 3-in., in bud, \$4.00 per 100, \$35.00 per 1000; 4 in in bud and bloom, \$5.00 to \$6.00 per 100. **Dracena Indivisa,** extra large, 5 and 6-in., \$2.00 and \$3.00 per doz.; 3-ft., \$4.00 per doz. **Vince Variegata,** strong, 4-in., \$6.00 per 100. **French Cannas,** strong, 3-in., \$4.00 per 100.

WM. S. HERZOG, Morris Plains, N. J.

Lilium Auratum Bulbs

IN PRIME CONDITION

6-8. \$4.00 per 100, \$35.00 per 1,000

7-9. 4.50 per 100, 40.00 per 1,000

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American Beauty Plants

2 1-2 inch pots

\$80.00 per 1000

ASPARAGUS PLUMOSUS NANUS

Fresh Seed Crop of 1906

\$2.50 per 1000 Seeds

Lots of 10 M. at \$2.00 per 1000 seeds

SAMUEL S. PENNOCK

The Wholesale Florist of Philadelphia
1608-18 Ludlow St. Store closes at 8 p.m.

ROSES—ROSES

Don't delay. We offer following varieties in 2x2½-in. rose pots ready for a shift. Strictly No. 1 stock—clean and healthy.

If you are not ready for them at once let us shift them into 3-in. for you and deliver any time in June—it will pay you.

	2x2½ inches	2½x3 inches	3x3 inches
7000 Bride	\$2.50	\$3.50	\$4.00
3000 Bridesmaid	2.50	3.50	5.00
3000 Golden Gate	2.50	3.50	5.00
1500 Ivory	2.50	3.50	5.00
1000 Souv. de Wootton	3.00	4.50	6.00
2500 Kaiserin Aug. Vic.	3.00	4.50	6.00
8500 Perle des Jardin	3.00	4.50	6.00
2000 Chatenay	3.50	4.50	6.00
1000 La France	3.50	4.50	7.50
2500 President Carnot	3.50	4.50	7.50
1000 Gen. MacArthur	6.00	7.50	10.00
500 La Detroit	6.00	7.50	10.00
5000 American Beauty	6.00	8.00	12.50
2500 Richmond	10.00	15.00	

Write us about Ferns and soft wooded stock

GEO. A. KUHL - PEKIN, ILL.

	100	1000
RICHMOND ROSE 2½ in.	\$12.00	\$100.00
KAISERIN " " " "	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
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1st March delivery
E. H. PYE, FLORIST
UPPER NYACK, N. Y.

In writing to Advertisers kindly mention Horticulture

SAN FRANCISCO NOTES.

'Midst the delirious excitement of this community, of which my scattered thoughts are part and parcel, I feel at a loss how to begin this report or what to say that would be in line with HORTICULTURE'S scope. It was a week ago yesterday at break of day that my comfortable home with all my worldly possessions collapsed with the earthquake from which I fortunately crawled out with several immaterial cuts and bruises. And then before composure a four days' fire ensued that could not be extinguished because the earthquake had broken the water mains of the city, the result being that the North and South divisions of San Francisco, which comprised two-thirds of the city, were wholly consumed. In these devastated divisions about all the commercial traffic of San Francisco was carried on, and more than one hundred and fifty stores conducted by cut-flower dealers and plantsmen went up in smoke. And where are these people now? Hard to find, I assure you, for confusion reigns supreme. Some, I have heard, were crushed by the earthquake, but I am not giving their names until I learn the facts. Others are stopping with growers in the adjoining county of San Mateo and on the east side of the bay, and others are getting on as best they can in the several thousand army tents erected in flower decked Golden Gate Park and the Presideo, and the green hillsides nearby. The floral business in the saved portion of the city, the Western division, has always been well attended to by these five prosperous dealers whose loss by the quake was only comparatively slight in the way of broken glass and pots: Serveau Bros., 2328 California street; R. Groves & Bro., Haight street and Masonic avenue; Clise & Jacobson, 942 Fillmore street; D. Roserie, Sacramento street and Central avenue, and the Belmont Florists (Louis Motroni & Bro.,) 2358 Fillmore street. A few hours ago I visited the Western Nursery of Charles Abraham, three blocks distant from the fire line, and the nursery of John H. Sievers & Co., only one block beyond the fire. This was undoubtedly saved by dynamiting a close by building. I found at these nurseries the offices and storehouses crowded with fire refugees, and also tents full of destitute people scattered about in the broad paths and byways. The damage to these places was not excessively severe in broken glass and pots and furrowed and cracked plant beds, but a shortage of water for plant life was sorely felt. Thousands of laborers are at work throughout the city in getting the water connections in order and within a few days it is believed all will be fairly well in this respect. Perhaps by next week, if we are providentially spared, more can be reported of the disaster that has befallen the flower trade and its devotees in San Francisco.

HORTICULTURE:—Kindly discontinue my ad. as we are about sold out of violets and carnations and at the rate chrysanthemums are going will soon be with these.

Very truly,

WM. SWAYNE.

PHILADELPHIA NOTES.

A large party of friends were on hand at the Reading Terminal on Monday to bid good bye and bon voyage to Harry Bayersdorfer who sailed May 1st on the Grosser Kurfurst on his annual European trip.

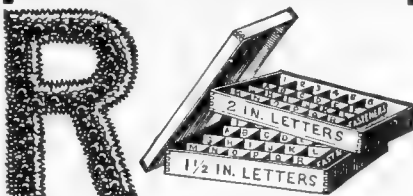
Paul Richter, manager of the Michell Seed Store leaves his present position in about two weeks to take charge of the American Horticultural Distributing Company of Martinsburg, W. Va. This change has been caused by a break down in health under the heavy and exacting strain of a rapidly growing seed business. The company which Mr. Richter goes to are manufacturers of insecticides in a large way. They have a process for arsenate of lead which is so extensively used as a remedy for the codling moth, also a scale destroyer, a weed killer, and several other valuable remedies which they manufacture on a large scale.

The surprise of the week in the wholesale flower trade was the resignation of Clarence J. Watson from his position held by him for several years as manager at Samuel S. Pennock's. Three week's ago another of Mr. Pennock's bright young men, Ralph Shrigley, left to take a position in a wholesale grocery warehouse.

Fred J. Michell has just returned from a ten days' trip to Baltimore and Washington in the interests of his firm. He reports trade and collections good and booked a number of good orders for fall delivery.

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 1. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

Always enterprising, we are now ready with a fine line of Easter Baskets.

Buy your Florist Supplies of
J. STERN & CO.

1928 GERMANTOWN AVE., PHILADELPHIA, PA.
Per postal

YOU WE WANT ORDERS ADVERTISING
LET US GET TOGETHER



WASHINGTON,
D. C.

GUDE'S

Florists

Out of Town

Taking orders for delivery In New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

546 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

DETROIT

John Breitmeyer's Sons

Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

**Artistic Designs
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

**Geo. H. Cooke
FLORIST**

Connecticut Avenue and L Street
WASHINGTON, D. C.

**FRED C. WEBER
FLORIST**

4326-28 ST. LOUIS, MO.
OLIVE STREET
Established 1873
Long Distance Phone Bell Lindell 676

Albany, N. Y. **EYRES**

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON
TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N. Y.
**SAMUEL MURRAY
Florist**

Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO.
Both 'Phones 2670 Main

ROSE PLANTS

BRIDES AND BRIDESMAIDS

2 inch pots ready for 3 inch

\$4.00 per hundred

\$35.00 per thousand

THE LEO NEISSEN CO. WHOLESALE FLORISTS

Store open 7 A. M. to 8 P. M. 1217 Arch St., PHILA.

In writing advertisers, mention Horticulture

GARDENIAS \$2.00 per dozen

CHOICE VALLEY \$4.00 per 100

Samuel S. Pennock

The WHOLESALE FLORIST OF PHILA.

1612-1618 Ludlow Street. Store closes 8 P. M.

Carnations.

Beauty Bride
and Bridesmaid.

Lily of the Valley.

Violets.

Telephone 6268-6267 Main

WELCH BROS.
15 Province St.
BOSTON

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

E. F. Winterson Co.

45-47-49 Wabash Ave., Chicago

Wholesale Cut Flowers and
Florists' Supplies

CUT FLOWER ORDERS OUR SPECIALTY

The leading Florists supply house of the west
Supply Catalogue free.

PETER REINBERG WHOLESALE

CUT FLOWERS

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In writing advertisers, mention Horticulture

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

E. H. HUNT

Wholesale

Cut Flowers

"THE OLD RELIABLE"

76 Wabash Av., CHICAGO

In writing advertisers, mention Horticulture

VAUGHAN & SPERRY

Wholesale

Commission Florists

If you wish to buy or sell, see them first
PHONE CENTRAL 2571

60 WABASH AVE., CHICAGO

Valley and Sweet Peas

W. E. McKEISSICK

Wholesale Florist

1221 Filbert St., PHILADELPHIA

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		ST. LOUIS		PHILA.		BOSTON	
	May 1		May 1		May 1		May 3	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00	12.00	to 20.00
Extra.....	15.00	to 20.00	15.00	to 20.00	12.00	to 18.00	8.00	to 10.00
No. 1.....	8.00	to 10.00	10.00	to 15.00	8.00	to 12.50	4.00	to 6.00
Lower grades.....	4.00	to 6.00	4.00	to 8.00	5.00	to 8.00	1.00	to 3.00
Bride & 'Maid—Fan. & Sp.....	6.00	to 8.00	6.00	to 8.00	6.00	to 10.00	5.00	to 6.00
Extra.....	3.00	to 5.00	4.00	to 5.00	5.00	to 6.00	3.00	to 4.00
No. 1 and Lower gr.....	2.00	to 3.00	2.00	to 3.00	1.00	to 4.00	1.00	to 2.00
Liberty, Fancy.....	10.00	to 12.00	.....	to 10.00	10.00	to 20.00	6.00	to 8.00
Ordinary.....	6.00	to 8.00	.....	to 3.00	3.00	to 8.00	1.00	to 4.00
Richmond, Fancy.....	10.00	to 12.00	10.00	to 12.50	10.00	to 20.00	8.00	to 10.00
Ordinary.....	6.00	to 8.00	6.00	to 8.00	3.00	to 8.00	4.00	to 6.00
Golden Gate, Fancy.....	4.00	to 6.00	4.00	to 8.00	5.00	to 8.00	3.00	to 5.00
Ordinary.....	2.00	to 3.00	2.00	to 3.00	2.00	to 4.00	1.00	to 2.00
Chatenay, Fancy.....	4.00	to 6.00	6.00	to 8.00	.....	to 8.00	3.00	to 5.00
Ordinary.....	2.00	to 3.00	2.00	to 3.00	2.00	to 6.00	1.00	to 2.00
CARNATIONS								
Fancy.....	2.00	to 3.00	2.00	to 3.00	2.00	to 4.00	1.00	to 1.50
Ordinary.....	1.00	to 1.50	1.50	to 2.00	1.00	to 1.50	.50	to .75
MISCELLANEOUS								
Cattleyas.....	.....	to 50.00	.....	to 50.00	50.00	to 60.00	40.00	to 50.00
Lilies.....	6.00	to 8.00	6.00	to 8.00	8.00	to 10.00	5.00	to 8.00
Callas.....	6.00	to 8.00	6.00	to 8.00	8.00	to 10.00	5.00	to 8.00
Luv of the Valley.....	3.00	to 4.00	2.00	to 4.00	2.00	to 5.00	2.00	to 4.00
Violets.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.20	to .35
Tulips.....	2.00	to 3.00	.....	to 1.00	.....	to 1.00	.75	to 1.00
Sweet Peas.....	.50	to 1.00	.....	to .50	.50	to .50	.15	to .50
Mignonette.....	.....	to 1.00	1.00	to 3.00	1.00	to 2.00	.....	to 1.00
Adiantum Cuneatum.....	.75	to 1.00	.....	to 1.00	.....	to 1.00	.75	to 1.00
" Croweanum.....	.....	to 1.00	.....	to 1.00	.....	to 1.50	.....	to 1.50
Smilax.....	10.00	to 15.00	12.00	to 15.00	15.00	to 25.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	25.00	to 50.00	35.00	to 50.00	.....	to 50.00
" & Sprenger bunches.....	35.00	to 50.00	25.00	to 50.00	35.00	to 50.00	20.00	to 35.00
Lilacs per 100 bunches ..	.....	to 3.00	.....	to 3.00	3.00	to 8.00	.....	to 8.00

J.A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and
Carnations
A Specialty.....

WHOLESALE
GROWER of CUT FLOWERS

EVERYTHING SEASONABLE IN CUT FLOWERS

EDWARD REID. Wholesale Florist

1526 Ranstead Street, PHILADELPHIA

Store Closes 8 P. M.

VICTORY

We do not need to advertise Victory aggressively any longer. We are making prompt deliveries of Cuttings daily and are giving universal satisfaction. ENOUGH SAID!

CUT FLOWER MARKET REPORTS

Quality and values seem **BOSTON** somewhat disturbed at present, due probably to the conditions of the transition period from winter to summer. Queen of Edgely and Liberty roses are exceedingly fine as seen now but Bride and Bridesmaid show the results of the winter's wear and tear in jaded-looking blossoms that flag rapidly after being exposed. Violets are running low both in quality and supply and a few warm days will finish them. Marie Louise and California are practically down and out. Campbells are still of good quality and the few Gov. Herricks seen here indicate that this variety is also a splendid spring bloomer. It will be grown quite extensively for this market next year. As to carnations the white varieties are abundant and are pretty well side-tracked. Enchantress are less abundant than they were but they are not so good and the same is true of Lawson. More or less complaint has come to the shippers, from the country trade on this account. Lily of the valley moves slowly as compared with the period since Easter. The demand is stagnated for the past two days. This flower always suffers in May; no weddings.

Favorable weather was **BUFFALO** had the past week, but business was at a standstill up to Friday. Stock poured in much faster than could be disposed of and prices ruled very low. An overstock of Harrisii and callas filled the wholesale house to its capacity. Carnations also were somewhat plentiful, but only in white, there being very little floral work in demand, and consequently a good many being carried over. The demand was better on colored stock, which held at fair prices and seemed to move more freely. Beauties of good quality are offered and moved more freely than previous week, but prices lowered considerable. Short teas and Liberties came in in enormous supply and had to be sold cheap to make room for the next day's supply. Green goods coming better than previous weeks and demand has been brisk. It is hoped that this coming week the market will be in a healthier condition.

The past week has been **COLUMBUS** another good one, all our florists having done a fine business. There has been little or no change in prices at retail, with

perhaps the exception of carnations, which have been reduced. Almost all our florists, as well as the seedsmen, handle nursery stock and plants, which together with the regular cut-flower trade has made a fast and furious business. No one has had time to do anything but work, in what has been for the past two weeks a vain effort to get our orders out on time. Trade in all lines has certainly been grand. Outside of a meeting of the bowlers of the florists' club, there has been nothing going on in that direction. This is the season of work.

Business conditions **LOUISVILLE** last week averaged satisfactory stock generally being in greater supply than demand. Carnations sell, and are in good supply, and quality. The demand for roses has been a little slow, while the supply and quality are very good. Good violets are very scarce. Lilies of the valley, lilacs, mignonette and other promiscuous stock sell up to expectations, and are in abundant supply.

Roses, roses every- **MINNEAPOLIS** where! No matter where we may turn, at the greenhouse, the wholesalers' or the retail establishment, there are roses of all kinds in abundance. The warm spring sunshine has done wonders to bring out the blooms, and as a consequence the prices are considerably lower than they have been for some time. Carnations are plentiful and sell readily. Harrisii lilies are still in demand, but callas are scarce. The calla seems to be losing its popularity year by year. Violets are gone. The ever-welcome arbutus is shipped here from Wisconsin in large quantities and is eagerly received.

Although the retail **NEW YORK** stores report a good run of trade and many social affairs calling for their help, yet from the wholesale standpoint business is lagging badly especially on the regular staples of high-class trade. The usual supplies are affected now by receipts of "frame" valley, out-door lilacs, daffodils, etc., from southern points, all of which are coming in heavily. A notification to the wholesalers from the United States Express that transportation rates from certain Jersey points have been advanced has served to add to the current worries of the wholesalers.

Market here im- **PHILADELPHIA** proved slightly over the previous week. Weddings and decorations were more numerous and used up quite some stock. Supplies came in heavily much of it showing the effects of the warm weather, especially in roses. Carnations did not suffer so much but were very plentiful. About a hundred thousand went to the street men on Saturday at very low prices. Sweet peas are plentiful and very good at present as is lily of the valley also. Violets are on their last legs. Orchids are in good demand and there seems to be stock enough—cattleyas mostly—Mossiae and Skinneri. Outside lilac is in evidence but there will be none from local sources until about the 5th inst. Wild smilax is done for the season; the new crop will commence to arrive in August. Asparagus plumosus plentiful, smilax scarce.

Advertising used to be regarded as a business accessory. It is now recognized to be as essential as the steel structure of a modern building—upon its strength every part depends.—H. M. Shaw.

SEND US YOUR ORDERS

AND YOU WILL RECEIVE THE FRESHEST AND BEST STOCK
TO BE FOUND AND AT THE LOWEST PRICES

No. 1 Dagger Ferns, \$1.25; Fancy Ferns, \$1.50 per 1,000 Discount on Large Orders
GALAX Green or Bronze, 75c per 1000, in 10,000 lots \$6.50



Southern Smilax 50-lb. case \$5.50

We can supply you with fresh made

LAUREL FESTOONING

gathered daily fresh from the woods, 4c, 5c and 6c per yard. Sample lot on application.

BRANCH LAUREL, 35c per large bundle. Fine line of Trees for decorating purposes. Try the beautiful Pine. Telephone or telegraph orders will receive prompt attention.

CROWL FERN CO., MILLINGTON, MASS.

FRANK MILLANG

Wholesale Commission Florist

COOGAN BUILDING

55-57 W. 26th Street, NEW YORK

Tel. 299 Madison Sq. Open 6 A. M. to 5 P. M.

FORD BROTHERS

48 West 28th Street, NEW YORK

FINE ROSES FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS

Telephone. 3870 or 3871 Madison Square.

ALEX. J. GUTTMAN

THE WHOLESALE

FLORIST

OF NEW YORK

Phone 1664-1665 Mad. Sq. 43 W. 28th St.

HICKS & CRAWBUCK, Inc.Wholesale Commission Florists
and Jobbers in Florist's Supplies76 AND 78 COURT STREET
BROOKLYN, N. Y.Established
1891BUY FROM
SHIP TO
TRY **ME****ALFRED H. LANGJAHR**

All Choice Cut Flowers in Season

55 West 28th St., New York

Telephone 3924 Madison Square.

JOHN I. RAYNOR**Wholesale Commission Florist** SELLING AGENT FOR
LARGEST GROWERSA full line of Choice Cut Flower stock for all purposes. Comprises every variety
grown for New York market, at current prices

TEL. 1998 MADISON SQUARE

49 W. 28 St., New York City

Walter F. Sheridan

Wholesale Commission Dealer in

Choice Cut Flowers

39 West 28th Street, New York

Telephone: 902 Madison Sq.

HEADQUARTERS FOR NOVELTIES**ORCHIDS A SPECIALTY**THE HIGHEST GRADE OF **VALLEY** ALWAYS
ON HAND

GARDENIAS, DAISIES, ROSES AND CARNATIONS

JAMES McMANUS, Telephone 759 Mad. Sq. 42 W. 28th St., New York**H. E. FROMENT**Successor to
Wm. Ghormley

Wholesale Commission Florist

CHOICE CUT FLOWERS

57 West 28th St.

New York.

Special Attention to Shipping Orders Telephones: 2200, 2201, Madison Square Write for Current Prices

The Reliable Commission HouseRichmond Roses and Rich Flowers
of all varieties**JOS. S. FENRICH**

110 W. 28th Street, New York

Tel. 324-325 Madison Square

FOR GOOD PRICES

AND CASH RETURNS

send your flowers to

Phil. F. Kessler

55 West 26th Street, New York.

Telephone 2921 Madison Square.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Apr. 28 1906	First Half of Week beginning Apr. 30 1906		Last Half of Week ending Apr. 28 1906	First Half of Week beginning Apr. 30 1906
Roses			Carnations, Fancy	2.00 to 4.00	2.00 to 4.00
Am. Beauty and Edgeley fan and sp.	10.00 to 15.00	10.00 to 15.00	Carnations, Ordinary	1.00 to 2.00	1.00 to 2.00
" extra.....	6.00 to 8.00	6.00 to 8.00	Cattleyas	50.00 to 60.00	50.00 to 60.00
" No. 1.....	3.00 to 5.00	3.00 to 5.00	Lilies	4.00 to 6.00	4.00 to 6.00
Lower grades.....	1.00 to 2.00	1.00 to 2.00	Callas	4.00 to 6.00	4.00 to 6.00
Bride & 'Maid, fan and sp.....	4.00 to 6.00	4.00 to 6.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
" extra.....	3.00 to 4.00	3.00 to 4.00	Tulips.....	.15 to .40	.15 to .40
" No. 1 and lower grades.....	1.00 to 2.00	1.00 to 2.00	Sweet Peas.....	.50 to .75	.50 to .75
Liberty, fancy.....	10.00 to 15.00	10.00 to 15.00	Mignonette.....	.50 to 1.00	.50 to 1.00
" ordinary.....	2.00 to 8.00	2.00 to 8.00	Adiantum Cuneatum.....	.50 to 1.00	.50 to 1.00
Richmond, fancy.....	10.00 to 15.00	10.00 to 15.00	" Croweanum.....	1.00 to 1.50	1.00 to 1.50
" ordinary.....	2.00 to 8.00	2.00 to 8.00	Smilax	10.00 to 25.00	10.00 to 25.00
Golden Gate, fancy.....	5.00 to 6.00	5.00 to 6.00	Asparagus Plumosus	20.00 to 50.00	20.00 to 25.00
" ordinary.....	1.00 to 3.00	1.00 to 3.00	" & Sprenger, bunches	10.00 to 25.00	10.00 to 50.00
Chatenay, fancy.....	4.00 to 6.00	4.00 to 6.00	Lilacs per 100 bunches	10.00 to 50.00	10.00 to 50.00
" ordinary.....	1.00 to 3.00	1.00 to 3.00			

JOHN YOUNG**Wholesale FLORIST**

51 West 28th St., New York

Telephone, 4463-4464 Madison Sq.

Best Beauties, Brides and Bridesmaids.

Lily of the Valley, Orchids and

Lilies. Renowned Cottage

Garden Carnations.

Edward C. Horan**Wholesale Florist**

55 WEST 28th ST.

Tel. 1462
1463 Madison Sq.

New York

TRAENDLY & SCHENCK
WHOLESALE FLORISTS

Furnish best stock at fair prices all the year round Send for quotations on fall orders

Tel. 798-799 Madison Sq.

44 West 28th Street, New York City

FLORISTS OUT OF TOWNTaking Orders for Flowers to be Deliv-
ered to Steamers or Elsewhere in New
York can have them delivered in PLAIN
BOXES, WITH OWN TAGS in best
manner by**Young & Nugent**

42 W. 28th St., New York

In writing to Advertisers kindly mention Horticulture



Fancy Ferns

Wholesale Florists

30 and 40 Miami Ave., DETROIT, MICH.

Michigan Cut Flower Exchange

WM. DILGER
Manager

Send for Our Weekly Price List on Cut Flowers.

\$1.75 per 1000
\$1.50 per 5000 Lots
\$1.40 per 10,000 Lots
Discount on Regular Shipments

Charles Millang

50 West 29th St., New York City

Cut Flowers on Commission

A Reliable Place to Consign to or order from

Telephone: 3860-3871 Madison Square

ORCHIDS AT ALL SEASONS

WM. STUART ALLEN CO.

Commission Merchants in Cut Flowers

53 WEST 28TH STREET, NEW YORK

Telephone 356 Madison Square

BUY YOUR FLOWERS THROUGH

A. MOLTZ

Wholesale Florist

55-57 W. 26th Street - NEW YORK

Best Facilities for Supplying you at Lowest
Daily Market Prices

Tel. 2921-5243 Madison Square

J. B. Murdoch & Co.

Wholesale Florists

FLORISTS' SUPPLIES

545 Liberty St., PITTSBURG, PA.

Long Distance Phone 1435 Court.

Bonnot Bros.

Wholesale Florists

55 and 57 W. 26th St., NEW YORK

Cut Flower Exchange Tel. 830 Madison Square.

OPEN 6.00 A.M.

AN UNEQUALLED OUTLET FOR CONSIGNED FLOWERS

JULIUS LANG Wholesale Florist

Consignments received, sold well
and returns made promptly.

53 WEST 30th ST. NEW YORK

Telephone, 280 Madison Sq.

ESTABLISHED 1872

JOHN J. PERKINS

WHOLESALE AND COMMISSION FLORIST

115 W. 30th St., New York

Tel. No. 956 Madison Square

Wanted.—A few more reliable growers of
Carnations and Violets. Quick returns and
highest prices.

H. BAYERSDORFER & CO

50-56 North 4th Street

PHILADELPHIA, PA.

FLORISTS' SUPPLIES

BEST LINE IN THE COUNTRY

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties

and are dealers in

Glassware Decorative Greens and Florists' Requisites.

Headquarters for BAY TREES

Following is a list of the Bay Trees which we
have for sale from the best growers in Belgium.
These trees are in splendid condition, guaranteed
to be first-class. We regard these as exceptional
value. See them before purchasing elsewhere.

PRICE LIST TO THE TRADE ONLY

Ht. of Stem	Diam. of Ball	Per Pair
50 4 ft.	30 in.	\$12.00
100 4 ft.	3 ft.	18.00
50 36 in.	24 in.	6.00
2 4 ft.	6 ft.	125.00
2 4 ft.	5 ft.	85.00
2 4 ft.	4 ft.	40.00

30 Pyramid Bay Trees, 8 to 9 ft. high, 3 ft.
in diameter, price per pair, \$28.00

2 Specimen Pyramid Bay Trees, diameter
of base, 7 ft., diameter of top, 3 ft.,
price for the pair, \$200.00.

The above are as fine a pair of Specimen Bay
Trees as there are in America.

N. F. MCCARTHY & CO. 84 Hawley St.
Boston, Mass.

Headquarters in Western New York

FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.
BUFFALO, N. Y.

Give us a trial.

We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

NEW CROP SOUTHERN WILD SMILAX \$3.50 and \$7.00 per Case.

Headquarters for all FLORISTS' SUPPLIES. Wire
Designs, Cut Wire, Letters, Immortelles, Cypas Leaves,
Wheat Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main, 2618.

WHOLESALE FLOWER MARKETS.

PER 100.
TO DEALERS ONLY.

	CINCINNATI May 1	DETROIT April 30	BUFFALO April 30	PITTSBURG May 1
ROSES				
Am. Beauty and Edgely. fan and sp.	30.00 to 40.00	40.00 to 50.00	..... to 25.00	20.00 to 25.00
extra.....	25.00 to 30.00	20.00 to 40.00	15.00 to 20.00	12.00 to 15.00
No. 1.....	10.00 to 20.00	8.00 to 20.00	10.00 to 15.00	6.00 to 10.00
Lower grades.....	5.00 to 8.00	5.00 to 8.00	3.00 to 10.00	2.00 to 4.00
Bride and Maid, fan. and sp.	8.00 to 10.00	8.00 to 12.00	..... to 8.00	8.00 to 10.00
extra.....	5.00 to 6.00	5.00 to 8.00	5.00 to 6.00	..... to 6.00
No. 1 and Lower grades	3.00 to 4.00	3.00 to 5.00	3.00 to 5.00	..... to 4.00
Liberty, fancy.....	10.00 to 12.00	10.00 to 12.00	8.00 to 10.00	..... to 10.00
Ordinary.....	4.00 to 7.00	5.00 to 10.00	3.00 to 5.00	..... to 10.00
Richmond, Fancy.....	8.00 to 10.00	8.00 to 12.00	8.00 to 12.00	8.00 to 12.00
Ordinary.....	4.00 to 7.00	4.00 to 8.00	3.00 to 5.00	4.00 to 6.00
Golden Gate, Fancy.....	8.00 to 10.00	10.00 to 12.00	5.00 to 6.00	..... to 8.00
Ordinary.....	3.00 to 5.00	5.00 to 8.00	3.00 to 5.00	..... to 4.00
Chatenay, Fancy.....	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
Ordinary.....	3.00 to 5.00	3.00 to 8.00	4.00 to 8.00	4.00 to 6.00
CARNATIONS				
Fancy.....	..... to 3.00	3.00 to 5.00	2.50 to 3.00	2.00 to 3.00
Ordinary.....	1.00 to 2.00	1.00 to 1.50	1.50 to 2.00	.75 to 1.00
MISCELLANEOUS				
Cattleyas.....	..... to 10.00	..... to 15.00	..... to 10.00	..... to 12.00
Lilies.....	10.00 to 12.50	10.00 to 15.00	6.00 to 10.00	6.00 to 10.00
Callas.....	6.00 to 8.00	..... to 12.50	6.00 to 10.00	6.00 to 8.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00
Violets.....	3.00 to 5.00	4.00 to 6.00	..... to 2.50	2.50 to 3.00
Tulips.....	3.00 to 4.00	3.00 to 4.00	..... to 1.00	..... to 1.00
Sweet Peas.....	2.50 to 3.00	2.50 to 3.00	1.00 to 1.50	1.00 to 1.50
Mignonette.....	..... to 1.00	..... to 1.00	1.00 to 1.50	1.00 to 1.50
Adiantum Cuneatum.....	..... to 1.00	..... to 1.00	1.00 to 1.50	1.00 to 1.50
Crownatum.....	..... to 1.00	..... to 1.00	1.00 to 1.50	1.00 to 1.50
Smilax.....	12.50 to 15.00	10.00 to 12.50	15.00 to 20.00	20.00 to 25.00
Asparagus Plumosus, strings.....	..... to 50.00	20.00 to 50.00	40.00 to 50.00	25.00 to 50.00
" & Sprengeri, bunches..... to 35.00	20.00 to 30.00	25.00 to 30.00	25.00 to 30.00
Lilacs per 100 bunches..... to 10.00 to 10.00 to 10.00 to 10.00

Geo. A. Sutherland Co.

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Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

E. A. BEAVEN

Wholesale Dealer in

SOUTHERN WILD SMILAX

and Florists' Hardy Decorative Supplies.

New crop now ready in limited quantities.

EVERGREEN, ALA.

The KERVAN CO.

20 WEST
27th ST., N. Y.

WHOLESALE DEALERS

Fresh cut Palmietto & Cypas Palm Leaves, Galax, Fern
Cather, Ferns and Mosses. All Decorating Evergreen

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WE WANT ADVERTISING
LET US GET TOGETHER

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Joseph Breck & Sons,
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AGERATUMS.

Ageratum Gurney, Pauline; rooted cuttings, 60c. 100, S. A. Pinkstone, 20-22 Philip, Utica, N. Y.

Ageratums Pauline and Gurney, 2 1-4 in., \$2.00 100. Cash. T. C. Breece, West Berlin, Ohio.

ALTERNANTHERAS.

Alternantheras, red and yellow, 2-in., \$2.00 100; rooted cuttings, 50c. 100, \$4.00 1000. Brilliantissima, 2-in., \$2.50 100; rooted cuttings, 60c. 100, \$5.00 1000. Davis Bros., Morrison, Ill.

ALYSSUM.

Sweet alyssum, fine plants, \$1.00 per 100. S. A. Pinkstone, 20-22 Philip, Utica, N. Y.

ASPARAGUS.

Oak Grove Nurseries, Los Angeles, Cal.
Asparagus Pl. N. Seed.

Asparagus Sprengeri, 2 1-2-in., \$2.25 per 100. Otto Bourdy, Lowell, Mass.

Asparagus Sprengeri Plants out of bench large clumps planted last June out of 3 in. pots, \$8 and \$10 per 100, by James Crawshaw, Providence, R. I.

Asparagus Plumosa, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

Asparagus Sprengeri, from flats, \$5.00 per 1000. J. F. Allen, Orlando, Fla.

Asparagus plumosus nanus seed. Clean, fresh seed, \$1.25 per 1000. J. F. Allen, Orlando, Fla.

BAMBOO STAKES.

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J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.
Begonias Gloire De Lorraine, Turnfold Hall.
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BOG PLANTS.

Bog plants, including Dionaea muscipula, Sarracenia flava, purpurea, rubra, etc. Write for prices, James M. Lamb, Fayetteville, N. C.

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CANNAS.

Canna Alemannia, dry or started roots, \$2.00 per 100. J. H. Krone, Jr., Fort Smith, Ark.

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CENTURY PLANTS.

Agave Americana (Century Plant) from 2 1/2 to 3 and 4 inch pots, cheap. Send for price lists. James M. Lamb, Fayetteville, N. C.

CHRYSANTHEMUM PLANTS.

Opak, Mildred Ware, Mrs. Weeks, Amorita, Convention Hall, Dr. Eugenhard, F. S. Vallis, Mrs. F. Thirkell, Etienne Bonnefond, Alliance, Beauty of Sussex, Mrs. Birce, La Fusion, Merstham Yellow, Fred Lemon, \$2.50 per 100; \$20.00 per 1000.
G. S. Kalb, Florence Teal, Glory of Pacific, Polly Rose, Willowbrook, Golden Trophy, Robt. Hailiday, D. W. Childs, John Shrimpton, Maj. Bonnafan, Col. Appleton, Nivius, Bride, Pink Ivory, White Ivory, Vivand Morel, Cullingfordii, Ermanilda, Areline, Nagoya, Maud Dean, Mutual Friend, W. H. Lincoln, Black Hawk, Jerome Jones, F. G. Jones, Golden Wedding, Timothy Eaton, Mme. F. Perrin, Wm. Duckham, \$1.50 per 100; \$12.50 per 1000.
Address W. F. Kasting, 383-387 Ellicott St., Buffalo, N. Y.

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Wm. Swayne, Kennett Square, Pa.

CLEMATIS.

Clematis paniculata, 2-yr., transp., \$6 per 100; 1-yr., strong, \$4 per 100. M. Y. Teas, Centerville, Ind.

COLEUS.

H. N. Eaton, So. Sudbury, Mass., Rooted Cuttings.
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COREOPSIS.

Coreopsis lanceolata, 2-1/2 in. pots, \$2.50 per 100. E. Y. Teas, Centerville, Ind.

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Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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Sterilized Sheep Manure.

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GERANIUMS.

Geraniums, large top cuttings, well rooted: Peter Henderson, \$2.50 per 100; Trego, \$2.00 per 100, \$18.00 per 1000; S. A. Nutt, Mrs. E. G. Hill, Beaute Potievine, Jean Viand, Mme. Buckner (best white), \$1.50 per 100, \$14.00 per 1000. The W. T. Buckley Co., Springfield, Ill.

GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin, N. Y.
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Gladioli. Colors, mixtures and named. All sizes. Also bulbets. E. E. Stewart, Rives Junction, Mich.

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Anchor Greenhouse Hose is the best for Florists.
Mineralized Rubber Co., New York.

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HYDRANGEAS.

Hydrangea Otaska, 3-in., \$1.00 per 100; 4-in., \$8.00 per 100; 5-in., \$2.00 per doz., \$12.00 per 100; 6-in., \$3.00 per doz. Large plants from 10-in. pots, fine stock lawn decoration at \$1.00 each; Dracaena Indivisa, 2-in., \$2.00 per 100; 3-in., \$4.00 per 100; Jemene, strong bulbs, \$3.00 per 100. Chrysanthemums, clean stock, Pally Rose (plant early for best results); Ivory, Alice Byron, best white to date; Halliday and 20 other stand. Sorts, R. C., \$1.00 per 100; potted plants, \$2.00 per 100. E. Fryer, Johnstown, Pa.

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Odorata Rosea and Martiacea Chromatela, strong roots, \$3.00 per doz. W. I. Bodfish, West Barnstable, Mass.

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Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PETUNIAS.

Petunias. California giants, single, from
seed, \$1.00 per 100. S. A. Pinkstone, 20-22
Philip, Utica, N. Y.

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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp.
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PUTTY.

Benj. Hammond, Fishkill on Hudson, N. Y.
Twemlow's Old English Glazing Putty.

RETAIL FLORISTS.

Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.
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Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

Samuel Murray, 1017 Broadway,
Kansas City, Mo.
For page see List of Advertisers.

Gude Bros. Co., 1214 F St.,
Washington, D. C.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pre, Upper Nyack, N. Y.
For page see List of Advertisers.

Rose Hill Nurseries, New Rochelle, N. Y.
Roses, Killarney.
For page see List of Advertisers.

Montrose Greenhouses, Montrose, Mass.
Grafted Roses.

Wm. W. Edgar Co., Waverley, Mass.
English H. P. Roses.

A. N. Pinson, Cranwich, Conn.
Grafted Roses.
For page see List of Advertisers.

John Burton, Chestnut Hill, Pa., Philadelphia.
American Beauty Plant.

ROSES—Continued.

H. A. Dreer, Philadelphia.
For page see List of Advertisers.

Richmond roses, 21-2 in. pots, strong, vig-
orous stock, \$8.00 per 100; \$70.00 per 1000;
4000 plants. Joy & Son Co., Nashville,
Tenn.

Roses, 21-2 in. pots, Kaiserines and 300
President Carnots, \$4.00 per 100, \$35.00
per 1000. Cash with order or good refer-
ence. Wm. F. Kasting, 385 Ellicott St.,
Buffalo, N. Y.

Roses. Baby Rambler, the strongest dor-
mant stock in the country, \$25.00 per 100;
2 1/2 in. pot plants, \$7.00 per 100, \$65.00
per 1000. Brown Bros. Co., Rochester,
N. Y.

The beautiful new pink rose, MISS KATE
MOULTON, is the queen of all pink roses.
It's a winner and you should grow it.
Price: \$30.00 100, 500 \$125.00, 1000 \$200.00.
5000 and upwards, \$175.00 per 1000. Min-
neapolis Floral Co., Minneapolis, Minn.

Crimson Ramblers, extra strong, 2 yrs.,
\$8.00 100. White Ramblers, Yellow Ram-
blers, etc., \$5.00 100. H. P. roses, 50 va-
rieties, 2 yrs. own roots, \$9.00 100.
Gilbert Costich, Rochester, N. Y.

SEEDS.

T. J. Grey & Co., 32 So. Market St.
Boston, Mass.

For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

H. F. Mitchell Co., 1018 Market St.,
Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.

For page see List of Advertisers.

H. A. Dreer, Philadelphia.
Flower Seeds.

For page see List of Advertisers.

Wm. Elliott & Sons, 201 Fulton St., N. Y.
For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., New
York.

For page see List of Advertisers.

Schlegel & Fottler Co., 26 S. Market St.,
Boston, Mass.

Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O.
For page see List of Advertisers.

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
St., Boston, Mass.

For page see List of Advertisers.

E. A. Beaven, Evergreen, Ala.
For page see List of Advertisers.

SPHAGNUM; CEDAR POLES.

H. R. Akers, Chatsworth, N. J.

STEAM TRAP.

E. Hippard, Youngstown, O.

TOMATO AND PLANT SUPPORTS.

Igoe Bros., 226 North 9th St.,
Brooklyn, N. Y.

For page see List of Advertisers.

VENTILATING APPARATUS.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Pierson U-Bar Co., 1 Madison Square,
New York.

For page see List of Advertisers.

Hitchings & Co., 1170 Broadway,
New York.

For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.

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Weathered Co., 46 and 48 Marlon St.,
New York.

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VENTILATING APPARATUS—Con-
tinued.

Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

VINCAS.

E. & C. Woodman, Danvers, Mass.
For page see List of Advertisers.

35,000 myrtle, Vinca minor, \$10.00 to
\$50.00 per 1000. S. J. Galloway, Eaton,
Ohio.

Vinca minor var. 2 1/2 in. pots, \$4 per
100. E. Y. Teas, Centreville, Ind.

VIOLETS.

H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.

For page see List of Advertisers.

Wm. Swayne, Kennett Square, Pa.
Lady Campbell.

WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.

Boston.

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N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.

George A. Sutherland Co., 34 Hawley St.,
Boston.

Welch Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.

Wm. F. Kasting, 383-37 Ellicott St., Buf-
falo, N. Y.

Chicago.

A. L. Randall Co., 21 Randolph St., Chicago.

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J. A. Budlong, 37 Randolph St., Chicago.

E. H. Hunt, 76-78 Wabash Ave., Chicago.

Chas. W. McKellar, 51 Wabash Av., Chicago.

Peter Reinberg, 51 Wabash Av., Chicago.

Vaughan & Sperry, 60 Wabash Av., Chicago.

E. F. Winterston Co., 45, 47, 49 Wabash
Av., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.

Wm. Murphy, 128 E. 3d St.

Detroit.

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Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Diger, mgr.

New York.

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Wm. Stuart Allen Co., 53 W. 28th St.,
New York.

Bonnot Bros., 55-57 West 26th St., New
York.

J. S. Fenrich, 110 W. 28th St., New York.

Ford Bros., 48 West 28th St., New York.

H. E. Froment, 57 W. 28th St., New York.

Alex. J. Guttman, 43 West 28th St.

E. C. Horan, 55 West 28th St., New York.

Philip F. Kessler, 55 W. 26th St., New
York.

Julius Lang, 53 West 30th St., New York.

A. H. Langjahr, 55 W. 28th St., New York.

James McManus, 42 W. 28th St., New York.

Chas. Millang, 50 West 29th St., New York.

Frank Millang, 55-57 W. 26th St., New
York.

A. Moltz, 55-57 W. 26th St., New York.

John J. Perkins, 115 W. 30th St., New York.

John I. Raynor, 49 W. 28th St., New York.

W. F. Sheridan, 39 W. 28th St., New York.

Traendly & Schenck, 44 W. 28th St., N. Y.

John Young, 51 W. 28th St., New York.

Hicks & Crawbuck, Inc., 76 and 78 Court
St., Brooklyn, N. Y.

Philadelphia.

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W. E. McKissick, 1221 Filbert St., Phila-
delphia, Pa.

Leo Niessen Co., 1217 Arch St., Phila-
delphia, Pa.

S. S. Pennock, 1612-18 Ludlow St., Phila-
delphia, Pa.

Edward Reid, 1526 Ranstead St., Philadel-
phia, Pa.

Pittsburg.

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J. B. Murdoch & Co., 545 Liberty St., Pitts-
burg.

New Offers in This Issue.

BAY TREES.

N. F. McCarthy & Co., 84 Hawley St.,
Boston.
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BEDDING PLANTS.

Charles Whitton, City and Green Sts.,
Utica, N. Y.
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BEDDING PLANTS.

Hermann Schoenfeld, 86th & Crothers Av.,
Elmwood, Phila.
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BEGONIAS.

Wm. Elliott & Sons, New York.
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CAPE JESSAMINES.

Asa Wright, 813 Ave. H, Galveston, Tex.
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GERANIUMS, DRACAENA INDIVISA.

Wm. S. Herzog, Morris Plains, N. J.
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GLASS.

G. C. Watson, 1614 Ludlow St.,
Philadelphia.
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GREENHOUSE GLAZING, PAINTING, BULBING.

W. A. Bruce, 1 Columbus Square, Boston.
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GREENHOUSE HOSE.

Mineralized Rubber Co., New York.
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HARDY RHODODENDRONS, AZALEAS, CONIFERS.

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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HARDY PERENNIALS, VEGETABLE PLANTS, BEDDING STOCK.

Ludvig Mosbaek, Onarga, Ill.
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HIGH GRADE CANNAS.

Southern Floral Nursery Co.,
Fruitdale, Ala.
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LANDSCAPE ARTIST.

William Plumb, 1133 Broadway, New York.
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LAWN MOWER SHARPENER.

G. C. Watson, 1614 Ludlow St.,
Philadelphia.
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LILIUM AURATUM BULBS.

V. H. Hallock & Son, Queens, N. Y.
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MEMORIAL DAY SUPPLIES.

H. Bayersdorfer & Co., Philadelphia.
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ROSES, FERNS, SOFT-WOODED STOCK.

George A. Kuhl, Pekin, Ill.
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VEGETABLE PLANTS.

J. C. Schmidt Co., Bristol, Pa.
For page see List of Advertisers.

WANTS

Advertisements in this column one
cent a word. Initials count as words.
Cash with order.

WANTED—To purchase collection of
Orchids from private parties. Address,
Gerndt & Company, 24 Clinton street,
Newark, N. J.

Do You Know

Where you can get the Best Cannas for the least money? If not, write us at once and we will tell you. Our list describes the largest collection in America. Sample prices: Allemania, 70c. per 100; L. Patry, Mlle. Berat, Chas. Henderson, Ex. Campbell, Coronet, \$1.00 per 100; Eastern Beauty, Egandale, Musafolia, King of Bronzes, Beaute des Marches, \$2.00 per 100; King Humbert, 25c. each; Fairhope, the best crimson, \$2.00 per doz. A hundred other fine varieties equally cheap. Stock very fine.

SOUTHERN FLORAL NURSERY CO., Fruitdale, Ala.

THE LATEST IMPROVEMENTS IN GREENHOUSE BUILDING.

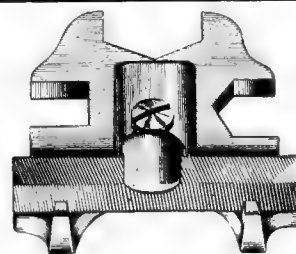
(A paper read before the Florists' Club of Philadelphia, May 1, 1906, by Dennis T. Connor).

In the past ten years there have been a great many improvements made in the construction of commercial greenhouses. The greenhouse builder is as much on the alert to add new and good features to greenhouses as the grower is to produce new varieties of roses or carnations. Perhaps the best greenhouse now erected is what is known as the iron-frame house. This house is the most durable and will last a lifetime. Lighter wood-work is used in this construction, and therefore more light is secured, less repairing, more rigid and less vibration. While the cost is more than our sash bar houses, we have quite a number of well-known florists that have adopted this style of houses, and consider them a good investment.

If florists will stop to think, in any kind of a house you erect, the cost of labor, glass, heating, and painting is the same, and often more in cheaper houses. A few dollars more for material that would be more durable is well spent. In most kinds of manufacturing plants the first and important thing to be considered is to erect substantial buildings, and use the latest improvements; this should be true in the florists' trade. There are no buildings that suffer as much as greenhouses, and they should be the very best. It is always wise and will cost you less if you take the advice of the builder. His constant association with the florist keeps him posted as to the wants of each grower and style of houses to build.

I might say that the even-span house, whether connected or separated, is the style mostly called for, from 18 to 20 feet in width and up to 500 or 600 feet long. A connected house, I think, should be from 18 to 26 feet in width, and the gutter line 6 to 7 feet above the greenhouse floor. Separated houses are built from 18 to 40 feet wide, the pitch about 32 degrees, or 7 inches to the foot; less pitch can be used in connected houses.

The question of durability is the most important thing when we plan to build greenhouses. Perhaps the latest and best improvements in this line is the combination of iron and wood used in what is known as the sash bar houses. Builders of greenhouses are constantly working out the very best details for this purpose. Cast-



SOCIETY OF AMERICAN FLORISTS

AND
ORNAMENTAL HORTICULTURISTS

This is to certify that

GEO. C. WATSON

is
HIGHLY COMMENDED

for
LAWN MOWER SHARPENERS

Exhibiten at
WASHINGTON, D. C., AUG. 15-18, 1905.

(Signed)
J. C. Vaughan, President.

Wm. J. Stewart, Secretary.

EVERY ONE SHOULD HAVE IT. 75c Each
postpaid. Liberal discount to agents.
GEORGE C. WATSON, 1614 Ludlow St.,
Philadelphia

FOR SALE

BEAUTIFUL HOME AND BUSINESS, Poughkeepsie, N. Y., to close an estate—situated in growing section of city on Worrall Avenue, one block from Main Street and South Side trolley—15 minutes' walk to Vassar College, 10 minutes to driving park, consisting of 1½ acres of ground facing 200 feet on avenue, 2½ story Slate Roof Frame Dwelling, Barn 36 x 28 feet, large cellar, city water, Georgia Pine finish, beautiful hemlock hedge on north line, fruit trees, lawn, shrubs, etc.—1500 square feet glass (Seven Substantial Greenhouses, and Propagating House)—city water throughout, electric lights through the avenue—15 minutes to Hudson River R. R. Station. This property situated for a beautiful summer or permanent home. Greenhouses can be run to cover all expenses of living and yield profit. Must be seen to be appreciated. Call or address

THOMAS DEVOY'S SON,
(Administrator)
40 WORRALL AVE., POUGHKEEPSIE, N. Y.

FOR RENT

TEN GREENHOUSES in running condition; possession immediately; \$50. Dwelling house attached, \$12; or will run on shares.

Apply **TRAENDLY & SCHENCK,**
44 W. 28th Street, N. Y.

**YOU WANT ORDERS
WE WANT ADVERTISING
LET US GET TOGETHER**

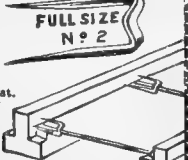
CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

Holds Glass Firmly
See the Point  **PEERLESS**
Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.



THE HEART OF THE MATTER IS
ALL HEART SUN DRIED CYPRESS



GREENHOUSE MATERIAL

IS THE VERY BEST—

FOLEY MFG. CO. 471 W. 22ND ST. CHICAGO,
HAVE IT, RIGHT FROM THE GULF OF MEXICO,
AND WILL MAKE YOU RIGHT PRICES—
SEND FOR SKETCHES ESTIMATES AND
CATALOGUE FREE—
**HOT-BED SASH, VENTILATING APPARATUS,
FITTINGS AND MANY OTHER THINGS—**

If you are having delay in getting your roof material, send your orders
TO US and don't be in trouble. We will handle any
order in the time agreed. Try us.

FOLEY MANUFACTURING CO.

471 W. 22d Street

CHICAGO

POT MAKERS FOR 140 YEARS
A. H. HEWES & Co. Inc. CAMBRIDGE, MASS.
KIND EVERYWARE FLORIST

STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/2 " " "	5.25	60 8 " " "	3.00
1500 2 1/2 " " "	6.00	HAND MADE	
1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
800 3 1/2 " " "	5.80	48 10 " " "	4.80
500 4 " " "	4.50	24 11 " " "	3.00
320 5 " " "	4.51	24 12 " " "	4.80
144 6 " " "	.16	12 14 " " "	4.80
		6 16 " " "	4.50

Seed pans, same price as pots. Send for price list of
Cylinders for Cut flowers, Hanging Baskets, Lawn
Vases, etc. Ten percent. off for cash with order. Address
Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower POTS

If your greenhouses are within 500 miles of
the Capital, write to us, we can save you money

W. H. ERNEST.

724th and M Streets, WASHINGTON, D. C.

WEATHERED COMPANY

46 MARION ST., NEW YORK

GREENHOUSE BUILDING AND HEATING

Send for Catalogue.

BY SLIPPING A

PEERLESS GLASS REPAIR CLAMP

over a cracked glass you protect your stock,
save coal and glass. Do it now before the high
winds may have with your roofs. \$1.00 will
repair 150 lights. Ask your supply man, or
A. KLOKNER, Wauwatosa, Wis.

Endorsed by about 400 prominent florists.

A TESTIMONIAL

THE MINERALIZED RUBBER CO., NEW YORK CITY.

GLENS FALLS, N. Y., Apr. 25th, 1906.

GENTLEMEN:—Three years ago I bought of you 100 ft. of your Anchor Greenhouse Hose, and it has
been in constant use ever since, being dragged around our four greenhouses and we have a water pressure
of 90 to 100 lbs.

Enclosed please find check for 100 ft. more.

Yours truly
(signed) **A. J. BINLEY.**

Compare this man's experience with your own. Better send for a sample of this hose.

iron gutters and iron posts are mostly
used and have come to stay. The eave
line, the weakest and most important
point about greenhouses, is taken care
of with the use of cast-iron gutters
and galvanized iron eave-plates. In
the iron and wood-work construction
we get greater strength and more dura-
bility and less shade, and this style
costs very little more than all-wood
houses.

In the use of iron about greenhouses:
Cast iron should always be used when
set in the ground. Cast iron is so
close to the natural element that it is
almost indestructible, and I would
say, always use cast iron in the
ground and at the ground line.
Wrought iron when used should be
kept well painted or galvanized.
Trussed houses, as planned by the firm
that I am with, are something new.
Houses of this style have been heard
of and been in use fifty years or more
ago. A great many improvements
have been made and special details
worked out for this kind of construc-

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Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insure better service.
Personal attention guaranteed.
Twenty-five years' active practice.
SPECIALTY: "Working on the Failures
of Others."
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

tion, all of which I believe are prac-
tical. One good feature about the
trussed houses is that we don't have
any columns in the way, except when
the houses are 30 feet or over in
width; then it is best to use columns.
Much lighter material is used in this
construction, making as little shade as
possible

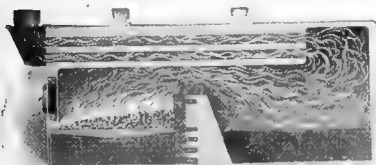
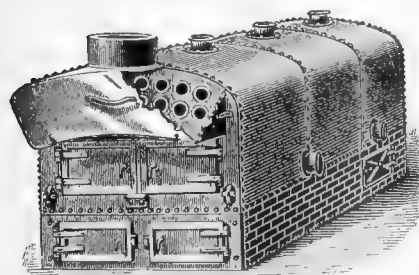
(To be Continued.)

Kroeschell Bros. Co.

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Greenhouse Boiler,

35 Erie Street, CHICAGO.



Boilers made of the best material: shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

GREENHOUSE MATERIAL

Made of clear Gulf Cypress is what we manufacture. We supply everything for your houses and your carpenter does the rest with the working plans we furnish. Let us figure on your requirements. We can save you money.

S. JACOBS & SONS

1365-79 Flushing Ave., Brooklyn, N.Y.

SEND FOR CATALOGUE OF
**SCOLLY HOT WATER
and STEAM BOILERS**

JOHN A. SCOLLY

73 and 75 Myrtle Avenue

BOROUGH OF BROOKLYN, N. Y. CITY

N. TONAWANDA,
N. Y.TORONTO,
ONT.

WRITE FOR CATALOGUE AND PRICES

GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.

117 E. Blackhawk St., CHICAGO

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.



U-BAR REASON

NUMBER NINE

Not only should a greenhouse look light, but it must be light!
Fresh white paint and sunshiny days oft are deceiving,

U-BAR GREENHOUSES

Are the Best Greenhouses Built

because they do not depend on paint and sunshine — *they are*
the lightest houses built, have less shading members — wider
glass spacings.

KNOW THE REASON
BEFORE YOU BUY A GREENHOUSE

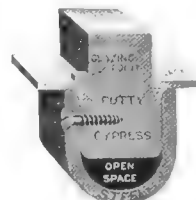
PIERSON U-BAR COMPANY

Designers and Builders

U-BAR GREENHOUSES

Metropolitan Bldg., 4th Ave. and 23rd St.

NEW YORK



GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE 111 FIFTH AVE

74 FRANKLIN ST. BOSTON

STANDARD PLATE GLASS CO.

Manufacturers, Importers and Jobbers

AMERICAN AND FRENCH GREENHOUSE GLASS

26-30 Sudbury Street

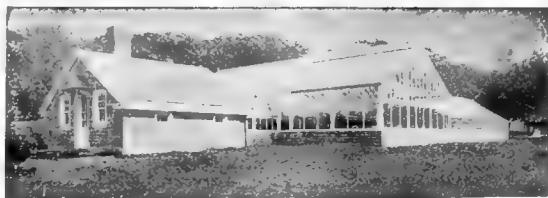
61-63 Portland Street

BOSTON, MASS.

TO BUYERS

Patronize our advertisers, they will treat you right

H AND C



It's But Natural

if a concern gives itself absolutely to one particular line, they become specialists in that line. We are greenhouse manufacturers—build and equip your house from foundation to heating plant and ventilating apparatus. It is the best greenhouse that can be built. It is the best equipped.

HITCHINGS AND CO.

GREENHOUSE DESIGNERS & BUILDERS

MANUFACTURERS OF HEATING
& VENTILATING APPARATUS

1170 BROADWAY NEW YORK

H AND C

Greenhouse Glazing, Painting and Bulbing a Specialty

ALL WORK DONE NEATLY

Orders Solicited for
Twemlow's Old English Glazing Putty

W. A. BRUCE, NO. 1 COLUMBUS SQUARE,
BOSTON

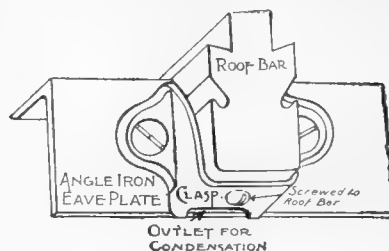
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FINE SILVER CUPS and TROPHIES

For Exhibition Awards, Sporting
Events, etc.

FINEST ASSORTMENT IN THE COUNTRY
FROM THE BEST MANUFACTURERS AND
AT LOWEST PRICES.

THORNTON BROS.,
LAWRENCE, MASS.



WE HAVE TOLD YOU

about the cast iron foot piece and angle iron post,—now once more on the galvanized angle iron eave plate and what it does. First, the sash bar clasp is secured directly to it, causing a dry, non-rotting joint. Second, it gives tremendous strength to the house at just the point strength is needed. Third, it keeps itself ice free. Fourth, it won't rust.

It's easy enough to know a house's weak points, but it's another thing to make the weak points strong—that's our strong point.

Lord & Burnham Co.

GREENHOUSE DESIGNERS
and MANUFACTURERS

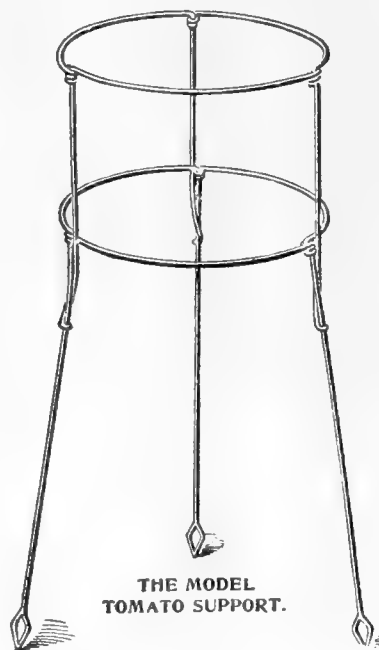
1133 BROADWAY, cor. 26th Street, N. Y.

Boston Branch: 819 Tremont Building

The Only Perfect Tomato and Plant Support Made of Heavy Galvanized Wire

\$1.75 per Dozen

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HORTICULTURE

Vol. III. MAY 12, 1906 No. 19



CALATHEA ZEBRINA

REYNOLDS

Devoted to the
**FLORIST, PLANTSMAN,
LANDSCAPE GARDENER**
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00

MAY 12 1906

Three Sterling Carnation Novelties

Winsor, White Enchantress, and Helen M. Could

There is nothing about any of these varieties that we wish to conceal; therefore, we cordially invite all carnation growers to pay us a visit. Come at any time.

WINSOR—Winner of Lawson Silver Medal.

This is sure to prove a winner. Nothing approaches it in color, which is a clear silvery pink—a shade between Enchantress and Mrs. Thos. W. Lawson—and much more beautiful than either. In fact, it is just the shade that we have all been trying to get. The color will make it sell in any market. The stem is just right. The flowers are considerably larger than Lawson and much better shaped. As a grower it has everything that can be desired. So far we have not seen any large-flowering variety quite so free as Winsor.

WHITE ENCHANTRESS.

A pure white sport of Enchantress, at once the most popular and most profitable carnation grown today, on account of its size and stem and freedom with which it blooms. White Enchantress is identical in every respect but color. Those desiring quality as well as quantity will find it in White Enchantress.

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This is a beautiful variegated sport of Enchantress. The ground color is a lovely shade of clear pink, the variegation carmine, making an exquisite combination of colors, besides being something distinctly new. At a short distance the variegation does not show at all, the general effect being a beautiful shade of dark pink. Growth, habit, size, and stem are the same as Enchantress.

We have fine stocks, from which we can deliver healthy cuttings of Variegated Lawson, White Lawson, Red Lawson, Enchantress, Mrs. M. A. Patten, Lady Bountiful, etc.

Our Variegated Lawson is all that we claimed for it last season, and is giving the fullest satisfaction everywhere—the best in the variegated class. Come and inspect our stock of new and standard sorts

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	per 100	per 1000
4000 strong selected Robert Craig from pots,	\$12 00	\$100
1000 " " Octoroon " "	3 50	30
5000 " rooted cuttings Enchantress,	3 00	25

Robert Craig Still Ahead

TABLE OF RETURNS

Per square foot of bench surface for blooms sold from September first until April first. In this computation Robert Craig has not been credited with several thousand blooms used for exhibition purposes.

Robert Craig	-	.55	8-10c	per sq. ft.
Enchantress	-	.47	1-10c	" " "
Mrs. Patten	-	.33	9-10c	" " "
Lady Bountiful	-	.28	1-2c	" " "

Thus our claim that Robert Craig is a first class commercial carnation is proved by the results obtained in actual practical commercial cultivation.

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CHRIST. WINTERICH

Defiance, O.

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these columns re-ent-ly and are buying for trial. We reiterate here—it if it succeeds with you as it does with us, it will prove the best white carnation you ever grew. Despite the variety's apparent failure in several places, we strongly advise all growers to give it a trial. We have been frank about its faults as developed in other places. We doubt if these will develop in many places.

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3-00 Golden Gate	2.50	3.50	5.00
15-00 Ivory	2.50	3.50	5.00
15-00 Souv. de Wootton	3.00	4.50	6.00
25-00 Kaiserin Aug. Vic	3.00	4.50	6.00
8-00 Perle des Jardin	3.00	4.50	6.00
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10-00 La France	3.50	4.50	7.50
20-00 President Carnot	3.50	4.50	7.50
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5000 American Beauty	6.00	8.00	12.50
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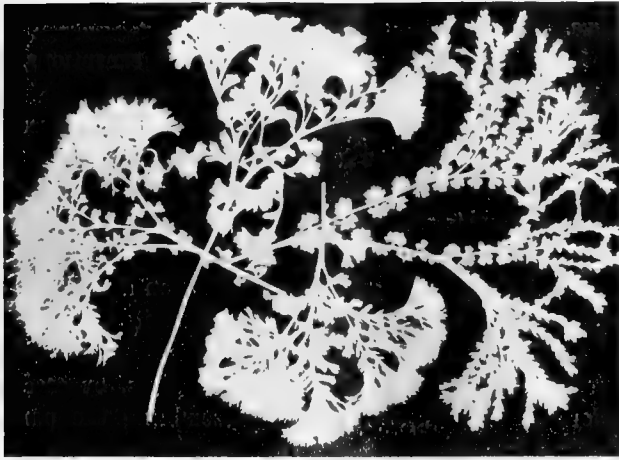
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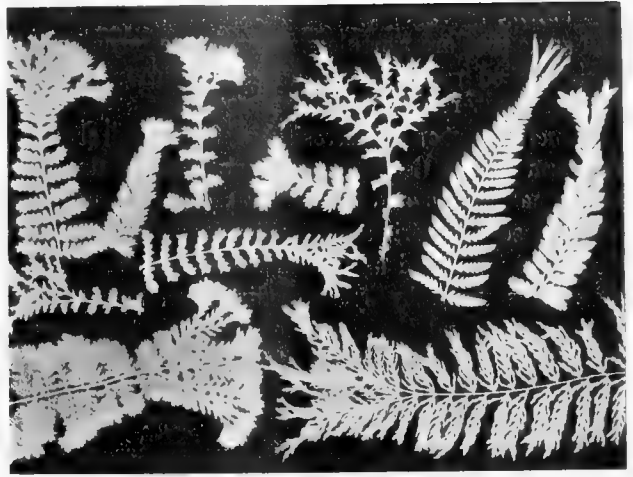
Nephrolepis Piersoni Elegantissima

F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, NEW YORK.

About Abnormal Ferns



Athyrium filix-foemina. Branching forms.



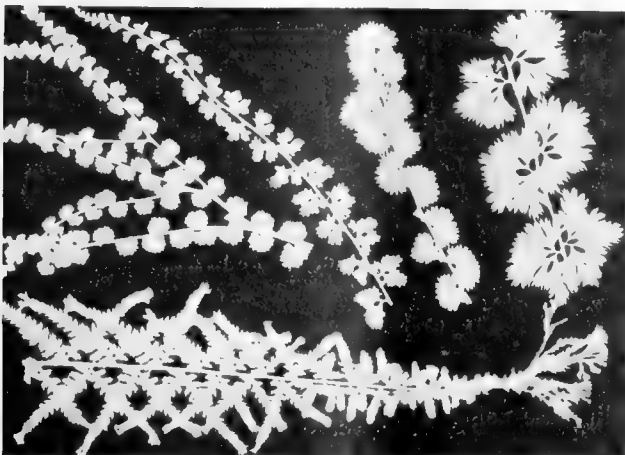
Athyrium filix-foemina. Pinnae of crested forms.

The production of abnormal forms in ferns is a passion with many fern growers, and no wonder, for it is not only a very captivating work to raise new forms, but sometimes is quite remunerative as witness the new forms of Boston ferns which are bringing considerable money, I think, also the crested pterises, which are liked more than the type, and so on.

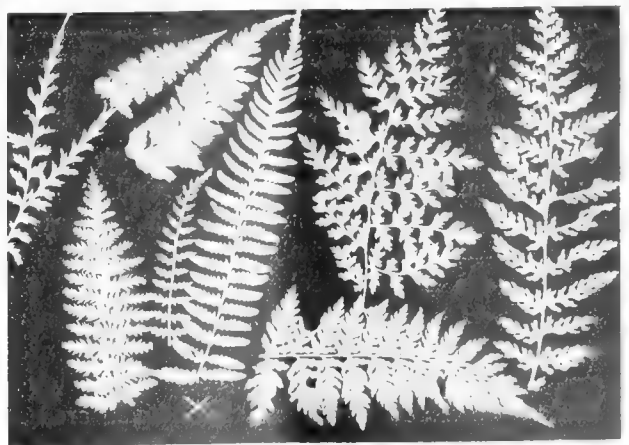
The question is, how do these abnormal forms in ferns originate? After one of these forms is found in any species the barriers seem to be broken and it is easy to get other forms from that one. Boston fern was cultivated a long time as Boston fern without any change in its fronds, but since Pierson appeared no one can foresee the end of the new forms that will evolve from time to time.

These abnormal forms are found not only in green-houses but also in the wild state and in some countries more numerous than in others. In the British Islands there have been found more abnormal forms in ferns than in all Europe and the United States together; the reason why can not be explained.

Another peculiarity which can not be explained is that in Japan many of the plants growing there have been found with variegated leaves while very few are found here or elsewhere. Some abnormal forms may originate from spores but there are in ferns different kinds of growth on the fronds or on the roots which young plants grow and I am of the opinion that most of these odd forms come from those growths as in other plants where shoots appear with changed foliage or differently colored flowers and one proof of this is that in propagating by spores abnormal ferns found in a wild state they have a tendency to go back to normal forms and it is only by selection and in the second or third generation from spore seeding that constant forms are obtained. There are a few of the newer Boston ferns raised from spores already in existence and from these will be developed in time a set of constant forms. I take Boston fern for an example because it is the fern of the moment. There is no rule about reproducing abnormal wild-found ferns; some reproduce themselves with but little reversion to normal while others



Athyrium filix-foemina. Lamulate and cruciate forms.



Athyrium filix-foemina. Showing change of tissue.
N. Pinnae normal.

give mainly normal plants with occasional altered ones and it is only, as aforesaid, that by selection and after a few generations that constant plants can be obtained and among these, even, will be found a few better ones and some that are worthless. Greenhouse ferns have not been worked much in that direction but in the hardy section great results have been secured.

Abnormality or monstrosity in ferns is a change in the form of the tissue in the nervations of the frond: in normal plants and in the first case the nervations which feed the sori are all alike throughout the entire length of the frond and when not sterile are not liable to change much by spore seeding. In some plumose forms are found the marks of the sori but there are no spores there. M. Drurey, in his excellent fern book gives a comprehensive account of this peculiar growth, called apospores.

In the second case the abnormality generally affects the top of the fronds, pinnae, or pinnules, and when not dwarfed to a crested bunch or the pinnae along the stem reduced to a rudimentary state the middle or lower parts of the fronds are normal as far as nervation is concerned. Where the frond is affected the nervation is in the form of a net work more or less branched in all directions and the spore dots (sori) are fewer and irregularly set while in that part of the frond not affected they are more numerous, normally set and of normal form; therefore, the spores taken from the normal part of an affected frond will give, by seeding a much larger proportion of normal plants that will be got from spores taken from the affected parts where the nervations begin to branch, and upward from this point will be given a great many abnormal plants, and the few normal ones included may be the result of spores blown over the whole plant from the normal portions. The spores taken from the whole frond thus affected, in *Athyrium fil. foem.* especially, will grow so many normal plants that they will kill the abnormal ones which are always weaker—unless they are destroyed as soon as they can be recognized. These facts apply mostly to hardy ferns—*Athyrium*, *Scelopendrium*, some *Polystichum* and *Polypodium* which are most liable to change. In *Nephrodiums* abnormalities are nearly all reproduced identically from spores taken from all parts of the frond and normal plants are seldom found among seedlings. They are also very difficult to cross.

Accepted theories have been combatted of late and heredity has been spoken of, but until more certain facts bearing upon the case have been obtained no definite conclusion can be made; animal life is not vegetable life; especially is the dissimilarity in ferns, where each little spore is an individual. Raising abnormal forms of ferns from spores is like most other things—you cannot expect much success right off. Every fern grower knows that disappointments and deceptions follow one after the other and trying and trying again are necessary before any results are reached, and a curious fact is that after working for some time in that direction the surrounding world has become seemingly saturated

with the tendency to abnormality and abnormal ferns will grow everywhere you put some spores.

In the raising of new forms in ferns chance has much to do, but there are some natural laws one has to recognize.

1. A normal fern will, with very few exceptions, reproduce itself identically.

2. Two or more species from a same genus seeded together reproduce the same species mixed together with sometimes—but not as a rule—hybrids. The fecundation in ferns is such a minute thing that you cannot depend on it.

3. A single abnormal frond found on a plant—usually a forked frond—does not reproduce itself.

4. An abnormal fern found in nature which has all its fronds altered in the same way gives, by seeding, more or less abnormal plants resembling the parent, with many normal ones. Sometimes they give new forms.

5. The selected altered ferns from that product give more than fifty per cent. altered ones, with some that are better. After that they reproduce themselves nearly identically through selected spores.

6. Two abnormal, wild forms, of the same species seeded together will give about one-half normal plants; the other half will resemble the parents, with a few other forms.

7. A few of these new forms seeded together give many other new forms, with a less proportion of normal plants. These new plants show great sensibility to variation and the result of seeding them together is scarcely two plants alike in the progeny, the number of normal ones, if the spores have been well selected, being very small. These observations have been made with the hardy ferns before mentioned and it is shown that most of these abnormal hybrids will be constant forms.

A few words about hybridizing ferns may not be out of place here. Everybody who handles ferns is supposed to know that when a fern spore finds itself in a suitable place it develops in a number of cells and takes a heart-shaped form called prothallium, which adheres to the ground by little hair-roots. On the under surface of the prothallus are situated the reproductive organs: male antheridium containing the antherozoids, the reproductive agent, and the archegonium, the female organ containing the embryo seed. If through the dew moisture of the under surface of the prothallus the movable fibratile little antherozoids are carried to the opening of the archegonia, when they enter fecundation takes place. Now, to hybridize ferns it is necessary that the antherozoids from one prothallus, the growth of a spore from one fern, finds its way to the archegonia of another prothallus which has grown from a spore of another fern. These organs being so extremely minute cannot be handled like the pollen of a flower and therefore hybridization in ferns is always a very uncertain possibility.

The female organs being situated within the indentation of the heart-shaped or top part of the prothallus

and the male ones among the root hairs of the lower part, the prothallus can be cut horizontally in two with a very thin, sharp knife and the upper part of one planted close to the lower part of another so that the cuts touch; this graft—so to speak—has to be made before complete development of the prothallus. This is the most certain way to some tangible result, but is very tedious work. A more practical way and one that is much used is to seed together the spores of two or three different ferns one desires to cross—not too thickly, but thick enough so that the prothallus when grown overlap one another; experience will indicate when the time is near for fecundation. Then at intervals of a few days for a week or two submerge for one quarter of an hour the seed pans with the surface of the soil all green with the prothallus, in a pail of warm water, shaking it slowly to assist the little antherozoids to move around, and if one or more find their way to another archegonia than the one to which they naturally belong, then hybridization has occurred and a new fern will be the result.

Am. Duthaus

Calathea (Maranta) zebrina

(See Frontispiece)

This genus furnishes the arrowroot of commerce and is therefore useful as well as ornamental. The species of this note is one of the oldest and most familiar denizens of our store-greenhouses. It is an inhabitant of tropical America, in which region most of the genus finds their abode. While not the gem amongst its fellows, from a purely beautiful and picturesque standpoint, it is withal one of the most imposing foliaged species when well done, and is the most easily grown under any and all circumstances, having the stoutest constitution of any of the species, maintaining a respectable appearance in lower temperatures and under adverse conditions. It makes a capital lawn-plant in a shaded and sheltered position, but this mode of culture is not conducive to exhibition plants.

Marantas like high and moist temperatures; a good shade is also essential, especially in the summer and autumn seasons. Syringing the foliage in the growing season is beneficial, but this can be easily overdone with marantas, even if they like—figuratively speaking—somewhat moist feet. As the blade of the leaves of many of them are comparatively large, frequent heavy syringings in other than skilled hands is likely to be more detrimental than otherwise, as the water thrown against the leaves is largely conducted down the stems into the sheath and finally to the potting material which naturally tends to conditions the reverse of healthy. As they possess soft and stout roots, the potting material should be porous in character. Fibrous loam chopped up lumpy, with a liberal proportion of good leaf-mould, semi-decayed, with sand and charcoal nodules in plenty, constitutes a good potting medium. In order to maintain them in good order, annual repotting in fresh soil, other things being equal, is an important factor.

H. D. Ingleton

Marica Northiana



The subject of the above illustration is not by any means a new plant, being introduced from Brazil as early as 1789; still it will be new to a good many readers of HORTICULTURE for the plant is seldom seen in cultivation outside of Botanical Gardens.

It is a member of the Iris family as can be seen at once by looking at the flowers shown in the photograph. The picture represents a plant in a 5-inch pot and it would make a fine plant for the dwelling house. Unfortunately the beautiful flowers are very short lived, lasting but one day. However, they will keep on developing new flowers for some time at intervals of from one to five or six days; each scape producing from three to five more flowers. Their flowering season is March, but where they are grown in any quantity the season of flowering is much longer, as some plants will start to flower as early as the middle of February while others will wait until the latter part of April. The flowers, although short lived, are beautiful, and for color would set many an orchid in the background. The outer segments of the perianth are of the purest white, at the base elegantly mottled or striped with chestnut-brown on a greenish-yellow ground; the inner segments are neatly curved, the upper part barred with deep blue on a white ground; the lower part veined with white and brown. The stamens are united, pure white with light green pollen masses. The flower measures three inches

across and contrasts very effectively with the deep green glossy leaves and flower scapes. These latter resemble the leaves very much only through the center can be seen the proper flower stem in the shape of a swollen midrib. The accompanying picture shows this plain, also the way the flowers proceed from the side near the top of the scape. At the same place and time as the flowers come out young plants will push forth, which affords a ready means of propagation as they will root as soon as they come in contact with the soil or sand on which the plant happens to stand. After flowering the scapes will droop down and then these young plants will soon establish themselves. If it is not desired to propagate from them, the young plants on the old flower scapes can be left on, the plant stood on an inverted flowerpot so as to keep the young growths from rooting, and the following winter both young and old plants will flower and it looks quite novel.

As to culture very little need be said, for the plant succeeds under all temperatures above freezing and below boiling, in any old soil, preferring a heavy loam, in shade or full sun; stick them away in any corner or along a walk where other plants would refuse to grow, these plants will thrive there. For the dwelling house no other plant will keep in better condition for so long a time and under poor management. They will take a lot of water if well drained and they can stand a good long drought without being injured. The flower scapes can be cut and will last a long time in the house, developing flowers and young plants almost as good as they would in the plant. The leaves possess the same good keeping qualities and can be used to good advantage with other cut flowers.

M. J. Pope

British Horticulture

A TULIP SPECIALIST

Amongst the most enthusiastic supporters of the National Tulip Society is Mr. A. D. Hall, M. A., who is at the head of the Rothamsted Experimental Station. For over ten years Mr. Hall has been cultivating tulips, and during that time has raised a number of seedlings. Exclusive of the latter, Mr. Hall grows about 150 varieties. He is most enthusiastic as to the culture of the florists' section. He considers that the English tulip is comparatively easy to grow, because it is not very particular either as to soil or climate. It stands the smoky atmosphere of the great manufacturing centres. Speaking of his own experience as a grower, Mr. Hall states: "I have dabbled in a good many flowers, but I think that none gets more good of you year by year than the tulip. The interest in the old florists' flowers is unquestionably reviving—witness the auricula and primula—and no doubt the tulip will have its turn. Even

if bulbs have to be purchased the price is not high. Another recommendation to the amateur is that the amount of space required for growing tulips is very small." Mr. Hall's flowers are seen at their best at the end of May. When they are in their bud stage, to keep off the rain a case is erected over them, composed of waxed calico, which forms an awning and is nearly transparent. Asked whether the interest in showing tulips was increasing, Mr. Hall replied: "We had a better southern show last year than we have ever had. The first is generally at the Royal Horticultural Society's hall the third week in May, but this year it will be at Botanic Society's show in Regent's Park. The intermediate show will be at Wakefield, and the third at Manchester, both in May."

A NATIONAL FLORAL EMBLEM

Market florists sent forward a good supply of red and white roses in anticipation of a big demand on St. George's Day. The result was somewhat disappointing, and some of the growers found that there was no increase in the ordinary demand. The St. George's Society has endeavored to secure the observance of this national festival by the wearing of red and white roses, but the movement makes but slow progress. One South London tradesman sought to gain a little publicity by presenting all his lady customers with a posy of roses on April 23rd. The florists would very much like to see this celebration taken up with more enthusiasm. They instance what has been done with the carnation as an emblematical flower in the United States. In this country the trade receives but little aid from national events. Even on ceremonial occasions when a touch of color is added to the London streets the garish and flimsy adornment of paper flowers are usually selected. The great flower-wearing day is on April 19th, when the primrose is worn in memory of the late Lord Beaconsfield. These flowers are extensively obtained from the woods and hedge-rows a few miles out of London by hawkers, so that here again the trade reaps but little advantage, beyond supplying a few wreaths for placing at the foot of the deceased statesman's statue. From time to time there have been suggestions for founding an orchid league amongst the admirers of Mr. Chamberlain. The cost of this aristocratic bloom has evidently stood in the way of the project being successful. The primrose has the merit of being thoroughly democratic. For a penny one is able to secure a good-sized bunch.

W. H. Adsett.

Horticulture's trump cards: Originality, forcefulness, superior reading matter, no muzzle, friends everywhere.

Improved types of *Cineraria grandiflora*



The evolution of modern florists' flowers has in no case been more strongly marked than in the cineraria family. The small-flowered senecio was the original prototype and from this we have a graduated advance up to the latest, star-shaped cactus forms. The cineraria enjoyed a wider popularity in the last decade than now; the inexorable law of "the survival of the fittest" placed it in the rear in an unprecedented era of novelties. The advent of the stellata type, so free and useful for cutting, and the latest acquisitions of Messrs. Sutton of England are tending to a revival with these one-time favorite plants. The objections of straggling foliage—requiring so much valuable room in winter—also a general uniformity of color, purples predominating, have been removed by the introduction of plants of close, compact habit, with beautiful shades of pink and pure white flowers, many with cactus form and quilled petals; they are now in every way worth the attention of the commercial florist and private gardener. These new types are of very floriferous character as may be seen from the illustration, every axil down to the base contributing its cluster, in many cases completely hiding the foliage. If the plants are kept in cool airy quarters flowers may be had from Christmas to May: the centre cluster usually fading first another may be drawn into the vacant place and the whole plant will look perfect again.

Seed may be sown the 2nd week in July; when large enough to handle prick off into boxes or pans, then later into 3-inch pots, keeping them going in not less than 60 degrees at night, also keeping them well up to the light. They will need a shift into 5-inch pots in September using ordinary soil, not too rich, at this stage and in November they may be transferred into 7-inch pots for flowering, using a mixture of good turfy loam, leaf mould, a little dried cow dung and sand, with a good sprinkling of rough bones. A good plan is to put a layer of rough bones over the crocks, the roots finding this in mellowed condition at the important period when the flower buds are forming. Incidentally, this method

of late feeding might well be applied with advantage to all soft wooded plants of this character; if too rich soil is given in the early stages, the wood-fibres ripen too quickly, thus running into flower before a good substantial growth has been secured. The indiscriminate use of fertilizers is responsible for many failures with what is naturally easily-grown stock.

Cinerarias to be done well should have a house to themselves. Cool, airy quarters with a temperature of not less than 40 degrees at night will ensure dwarf steady growth. They should be kept well up to the light and turned around weekly, keeping a sharp look-out for aphids; a good plan where outside conditions permit is to have bottom ventilators put in near the pipes, leaving them open night and day, even with a few degrees of frost, balancing matters by keeping heat well on at night and checking in the morning, thus maintaining always a fresh buoyant atmosphere, so absolutely necessary for cinerarias and all plants of like character, if dwarf, sturdy, growth is to be secured during the winter months.

Edgar Elvine

Pseudo-bulbless *Oncidium*s

These interesting and easily cultivated plants, generally considered scarcely worthy of cultivation, require only to be better known to receive the recognition they deserve. They are mostly natives of Central and South America, have thick, leathery foliage, which it may easily be supposed, performs all the functions of pseudo-bulbs. The flowers are borne on long branching panicles sometimes four and five feet long.

The most popular of this class of *Oncidium* is *O. Cavendishianum*, and a well-flowered plant of this species is a sight to be remembered. The species is variable but the flowers are generally yellow with rich brown spots on the sepals and petals; the lip is bright yellow. The size, color, fragrance and texture of the flowers, combined with their keeping qualities, make this a valuable horticultural species.

O. luridum is also a vigorous and useful species, but the flowers have not the texture of *Cavendishianum* and are more transitory.

O. bicallosum, *O. Lanceanum* and *O. Carthaginense* are each worthy of a place. The latter has small, obsolete pseudo-bulbs but has the thick fleshy leaves of the class. They all enjoy a warm, very moist atmosphere, and should be grown in baskets in pure fern-root as they are very free-rooting and resent anything approaching stagnation in the rooting medium. In a hot, moist house they will make enormous quantities of aerial roots without which the plants are seldom luxuriant.

They are all sensitive to strong sunlight and should have shade nearly all the year.

James Hutchinson

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager.

A fair
field for all

A correspondent writes in approval of our policy of giving full liberty for the expression of opinion in our columns.

We do not always agree with the views expressed by those who write for us, but all are welcome so long as they discuss things and policies and operations rather than individuals and so long as it is done in manly way over one's own name. In the case of trade journalism, in which the family character is so inherent, the arguments against the use of assumed names are many and those in favor very few. We have always agreed with the late Peter Henderson, who frequently expressed strong views on this point, holding that if a man was afraid or ashamed to sign his name in full to a communication he would better not publish it at all.

Get ready
for Dayton

Only a brief space of three months now separates us from the S. A. F. convention at Dayton, Ohio, the leading horticultural event of the year. It is not too soon to begin active individual and concerted work to the end that a large attendance may be assured and the greatest pleasure and profit derived. Club officials, committees, State vice-presidents, and others interested in organizing parties to travel together to the convention or otherwise promoting its success are free to use the columns of HORTICULTURE for such announcements and notices as they choose to make at any time and we shall give them prompt dissemination. Dayton is very centrally located and had every qualification needed in a convention city. The normal convention attendance is a foregone conclusion but it is possible to increase this largely by early effort. So "get busy."

Bedding plant
prospects

A revival in the demand for bedding plants is noted in many places. We are glad it is so. There are innumerable spots which nothing else can fill so well,—little spots all through the crowded city where nothing would ever be planted were it not for the enticing baskets of assorted geraniums, salvias, heliotropes and pansies, which awaken the dormant fondness for a bit of blooming garden. There is no garden so small or so large in which this class of

plants has not an appropriate place and their use, by the gardener blessed with good judgment and correct taste, will not interfere with but rather assist and supplement in a pleasing manner the hardy herbaceous and shrub plantings which in recent years have taken the place of the garish, unsatisfying displays of bedding plants once so prevalent. The past decade has seen many real improvements among this class of plants in the way of more compact habit, greater variety of color, larger flowers and other points of excellence and it is very gratifying to see that these new and improved sorts are being grown and offered generally by the large advertising growers. We hope their enterprise will be amply rewarded with big business and remunerative results.

Concerning
the dissemination
of wholesale prices

Trade prices, where and how they should be published, or whether they should be published under any circumstances, have long been and are likely to continue to be a fruitful subject for critical discussion in certain quarters. There is no known method whereby the limit of distribution of printed matter can be controlled or any authority exercised as to whose eye it shall not reach. The publisher of a journal in which wholesale prices are quoted can and generally does endeavor to place some reasonable limit on its circulation, but the destiny of each copy, after it has left his hands, is beyond any further control on his part. We contend that it is to the wholesale dealer and advertiser that the retail dealer should look for protection against the selling of goods to retail consumers at trade prices. The whole matter will easily adjust itself in all horticultural lines when the wholesale dealer adopts the plan of demanding from every applicant a business card of other satisfactory evidence that he is in the trade and entitled to trade prices before consenting to have any dealings with him. This is the method pursued in other lines of trade of any extent commercially and, when lived up to, covers the ground fully.

Fighting
the moths

It now becomes evident that, despite the myriads of moth nests and eggs that have been destroyed through public and private effort in eastern Massachusetts and neighboring states during the past three months, the campaign will have accomplished little more than the saving of a great many trees that would otherwise have been ruined. That the number of moths to be fought next winter will be appreciably less than has been the case this season or that any reduction of the extent of territory infested will have been effected can hardly be expected for there are vast numbers of the pests that have not been reached,—extensive wood lands on which the cost of extermination would far exceed the actual value of the land and for which any appropriation the state could make would be entirely inadequate. Extermination of either brown-tail or gypsy moths is no longer dreamed of by anyone who realizes the situation and it would seem inevitable that unless some natural foe of the moths should interpose, the scourge will in time over-run the entire eastern section of the country. We urge upon those of our readers who have not already done so that they send to Superintendent A. H. Kirkland, Boston, for such documents as may enable them to recognize the insects and detect their presence early, and giving information as to the best methods for combatting them.

UNCLE JOHN ON MECHANICAL WATERING.

Editor HORTICULTURE:

Dear Sir:—If the interest in "Mechanical Watering" continues, HORTICULTURE will have to set apart a department under that head where the pros and cons may have full sway. To me, the Wittbold system of mechanical watering (I am not sure whether this is the best title for it) possesses so much merit and appeals so directly to progressive horticultural work, that it must undoubtedly be appreciated. Somehow or other, some of the gentlemen seemingly believe that the "system" has not one tittle of desirability in its make-up, which is assuredly wrong, as if to-day the hose shall be condemned as being in its general use, detrimental to the best culture. The man who uses the water can, the man who uses the syringe (the revolver of water arms), the man who uses the hose, has to mix the water he uses with brains, or he cannot be successful. The man with the mechanical watering apparatus must also mix brains with this system.

Watering cans, syringes and hose will be necessary implements, in good culture even where mechanical watering is used.

In the Wittbold establishment the system is installed in a series of houses (where palms of various sizes, ferns of various sizes, rubbers and miscellaneous plants—coleuses, begonias, geraniums and other bedding plants) all of which are well grown and in fine condition. There is a difference in each of these houses in the manner the water is distributed; in some the water is distributed over the general surface, in others it is distributed so as to completely wash the under surfaces of the plants—again, only the pots are watered. In one house where nephrolepis are grown in hanging baskets suspended from the roof, the system is so arranged for the perfect watering of these ferns that, if nothing else had been attempted, this alone is worth all the work and thought Louis Wittbold has put in it. The manipulation of the actual watering must in itself recommend it as a saver of time and of labor. The first cost is not more than the cost of rubber hose would, be for at most three years. Its uses will be so numerous as it gets known that they will be greatly appreciated in many ways not now thought of.

In conclusion permit me to say that I am sure the many readers of HORTICULTURE greatly appreciate that a subject so important as watering (whether mechanical or hosey or otherwise) has been given so much space in its columns. Not forgetting, that brains must be mixed with water, however applied (whether it be by McGorum, McHutchison, Finlayson, Wittbold, or "any other man") to obtain the best results.

Very truly yours,

JOHN THORPE.

OUTDOOR ROSES AND MECHANICAL WATERING.

To be reasonably sure of getting good roses outdoors the plants have to be carefully attended to from now on. They require to be kept clean and growing vigorously. Dust the plants early and often with hellebore powder, and by and by if the soil gets dry it will pay to water thoroughly. If watering is done in the late afternoon or evening let the water flow at the base of the plants. I sometimes think this much-talked-of mechanical watering apparatus might be just the thing for this and other purposes, arguments of certain worthy men notwithstanding. In time it may be called irrigation in close quarters, and who knows but what irrigation has already accomplished for the arid lands of the West, this new-fangled mechanical watering business may also do for the enlarged horticultural establishments of the West and East. Don't condemn anything until by a just trial you have been convinced that condemnation is deserved, because it may be possible that a just and fair trial may reveal the fact that what would have been said in condemnation would be unjust in more ways than one.

D. MCINTOSH.

THE SEEDSMEN'S STANDPOINT.

Editor HORTICULTURE:

Dear Sir:—You have doubtless noticed in the press dispatches and the Congressional Record the harsh and unwarranted charges against the Agricultural Press of the country, made by the friends of "Free-Seeds" during the debate on the Agricultural Appropriation bill. Angered by the contemptuous criticism of this graft by the press as a whole, its friends charged that the press opposed it not from principle but because it was controlled by the seed merchants through their advertising—an infamous insult which should be resented.

The Senate Committee on Agriculture has granted a hearing on "free seeds" to be held shortly, at which some of the prominent seed merchants will explain why they are opposed to the government interfering with their business by giving away products which they sell. If you are sufficiently interested, will you drop a line to Senator Redfield Proctor, Chairman of the Committee on Agriculture, stating that you are opposed to the distribution on principle and not because of any influence of advertisers. Or, if you prefer it, I would be pleased to present to the committee at the hearing, anything you may send me on the subject. For your information I may say that the seedsmen are not opposed to a distribution of new, rare and valuable seeds within the meaning of the original act, but they object to the indiscriminate distribution of turnip, radish, corn, beans, peas, spinach and other of the commonest kinds of garden seeds simply that a Congressman can make a showing with his constituents.

Trusting to have your cooperation in this undertaking, I am,

Yours very truly,

WILLIAM WOLFF SMITH.

Washington Representative, Wholesale Seedsmen's League.

WHOLESOME CHESTNUTS.

Bedding out will from now on take up a considerable part of the gardeners' attention. Geraniums that have been sufficiently hardened may be planted out in many locations in a week or ten days, but tender things, such as alternanthera, coleus, heliotrope, etc., are safer where protection is available up to the first of June.

If alternanthera persists in damping off in the greenhouse water only when absolutely necessary, and then in the forenoon; avoid sprinkling. Water thoroughly when required at the root as much as possible. Alternanthera will not color up well when growing rank; for that reason shallow flats are preferable, and even when the plants are in hot-beds it will be found advantageous to lift them two or three weeks before planting and put them into flats or small pots.

Herbaceous borders should now receive attention in the way of regulating and keeping clean; each kind should stand distinct and any other kind encroaching should be dug out sufficiently to allow each plant or clump to show up. The parts dug up for this purpose can be utilized in filling blank spaces where deaths have occurred.

Hollyhocks and all tall growing plants should be staked in time and the sooner this is done the less objectionable the stakes will appear later on.

Some people take great care to have the ground for vegetables thoroughly manured, but when it comes to the flower beds and borders they seem to think that for them little if any manure or fertilizer is needed. This is for obvious reasons a serious mistake; ground planted year after year with flowering plants gets exhausted unless something is added to counteract the action of the roots on the soil. Impoverished soil is in many cases the cause of scraggy plants with but few blooms, often seen towards the end of the season.

Get dahlias hardened before planting; this of course refers to potted plants from cuttings or division. Dahlia roots are better in the open ground now than anywhere else. Don't plant them too closely; leave room between the rows to be able to walk and work comfortably. Put stakes in for each plant at planting time, and have labels handy to tack on the stakes.

Rock gardens are very pretty and are sources of much delight and enjoyment. At this season every plant should be carefully gone over and freed from weeds. Look out that ferns are not smothered by either weeds or plants. A certain amount of carelessness in appearance perhaps adds to the beauty of a rock garden, but weeds are nothing but a menace even then.

HORTICULTURE:—Please cut out my advs. in your paper as all my stock is sold out. Send me the bill. Yours truly, S. A. PINKSTONE.

NEWS OF THE CLUBS AND SOCIETIES.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The May exhibition at Horticultural Hall, Boston, on Saturday afternoon, fifth inst., brought out some superb exhibits of calceolarias and fancy pelargoniums from that invincible grower, James Stuart, gardener for George F. Fabyan of Brookline. The varieties represented in the pelargonium collection were the following: Bridegroom, Mrs. Ashley, Nellie Hayes, Miss Henderson, Lady Duff, Mabel, Alice Love, Duke of Portland, Mme. Thibaut, May Queen, Purity and H. M. Stanley, a list comprising a remarkable variety of colors. Two plants of Calceolaria Golden Gem, each four feet across, from Dr. C. G. Weld, gardener W. C. Rust, also came in for great admiration. The long tables were loaded with spring flowers including a splendid variety of Alpines from the Botanic Garden, tulips in wide assortment from several exhibitors, a great collection of narcissi from Longwater Gardens, gardener W. W. Craig, which received a silver medal; pansies, and other cut bloom. A cultural certificate was awarded to W. N. Craig for fine Liliun candidum, eight to twelve flowers on a spike.

NEW JERSEY FLORICULTURAL SOCIETY.

John E. Lager on Orchids was the attraction at the monthly meeting on May 4. The lecture was amply illustrated with flowers from Lager and Hurrell and the Julius Roehrs Co., and the private collections of Henry Graves and William Barr, many of which had never been outside their glass houses before.

Two *Medinella magnifica* requiring special carrying facilities were brought from the Colgates and John Crosby Brown, flowered by William Reid and Peter Duff, and the usual array of American Beauty, fine carnations, antirrhinums, calceolarias, gladioli, from skilled hands. Collections of vegetables from Mrs. William Pierson, Chas. Ashmead, gardener, and Chas. Hathaway, Max Schneyder, gardener.

An engrossed and illuminated copy of resolutions were presented to Malcolm MacRorie treasurer of the society for many years in recognition of services rendered, feelingly responded to by the recipient. Louis Piker was elected to membership and a committee appointed to co-operate in the societies' part in the forthcoming floral parade, June 15.

J. B. DAVIS.

LENOX HORTICULTURAL SOCIETY.

The regular meeting of the Lenox Horticultural Society was held Saturday, May 5, President S. Carlquist in the chair. This society held an institute with the Housatonic Agricultural

Society and their president, F. W. Heath, introduced Dr. B. L. Hartwell of the Rhode Island Experiment Station, who gave a very instructive lecture on "How Plants Grow." He explained from large charts the chemical structure of the leaves, stems and roots of plants, also many of the chemical experiments that are being made at Kingston, R. I.

A committee was appointed to draw up resolutions of condolence, to be sent to the wife of our esteemed and former active member, the late Wm. Woods.

GEO. FOULSHAM, Secretary.

NEW YORK FLORISTS' CLUB.

On account of the inability of Mr. Pettigrew to be present next Monday, the evening will be devoted to the members, who are requested to bring up discussions as to what would be the best thing to do to advance the interests of the club, and to take some action regarding the increased express rates on cut flowers.

The annual outing is scheduled to take place on July 2, at Witzel's Point View Grove, Long Island. The program is now well under way in the hands of a very efficient committee.

AMERICAN CARNATION SOCIETY.

The following varieties have been registered:

"Winsome." By John Reimels. Woodhaven, N. Y. Scott shade of pink and about the same growth as Scott when it was first introduced. It blooms freely and the flowers measure from three to three and one-half inches.

"Pink Imperial." By John E. Haines, Bethlehem, Pa. Pure pink of immense size and unusual long stems all season through. A strong grower and free bloomer.

"Abundance." By Rudolph Fischer. Great Neck, L. I. A pure white of fair size and an unusually free bloomer.

"Crimson Glow." By Dailedouze Bros., Flatbush, N. Y. A glowing crimson of medium size, perfectly stiff stem, an excellent calyx, of good healthy habit and a free and continuous bloomer.

"Avalanche." By Robert C. Pye, Nyack, N. Y. Pure white flower three and one-half inches in diameter on a stiff wiry stem twenty inches in length. Habit resembling Lawson, its seed parent, but without the short stems of that variety.

ALBERT M. HERR, Secretary.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Duncan Finlayson, Jamaica Plain, Mass., submits for registration *Dendrobium nobile* Mrs. Larz Anderson. Flowers, nearly four inches across; extra fine form; sepals and petals pure white the extreme apex of each being slightly colored with pale amethyst; labellum pure white; disc of darkest maroon purple.

WM. J. STEWART, Secretary.

PITTSBURG AND ALLEGHANY FLORISTS' AND GARDENERS' CLUB.

The meeting of the Club on Tuesday, May 1st, was well attended considering the season, for as the warm days of late spring and early summer draw on the attendance is always less than in the winter months. One new member was elected, and a number who were in arrears for their club dues for two years, and had made no favorable response to reminders, were dropped from membership, it not being the policy of the Club to carry dead timber.

Bedding plants and Palms, was the topic assigned for this meeting, and H. L. Blind & Bros. of West View, led off with a large assortment of bedding plants, of which some fine double tuberous-rooted begonias and cannas drew the most attention. It was brought out that the Henderson was the best seller among the cannas, but that the purely foliage varieties such as Black Beauty did not take well.

Mr. H. C. Burchler, for the Valley Greenhouses, Sewickley, showed a very attractively staged collection of thrifty stock, the vincas and fuchsias being especially noticeable.

S. J. Hatch, for D. M. Clemson, also showed bedding plants in variety, good stock.

Jno. Bader of Troy Hill, from his large collection of palms and tropical plants showed a few specimens of pandanus, dracenas, variegated box elder and palms in variety.

The chief feature of the exhibit of Schenley Park Greenhouses was the exceedingly fine calceolarias. Every one was a specimen fit for a prize.

The subject for the June meeting is Paeonies and other outdoor flowers. This promises to be a very interesting meeting as one of the largest paeony specialists in the country will make an exhibition.

H. P. JOSLIN.

CLUB AND SOCIETY NOTES.

At the meeting of the New Haven horticultural society held on May 1 a committee was appointed to consider the expediency of having a rose show in June. Plans for the big show in September was also discussed. President R. D. Pryde presided. F. C. Thompson of West Haven read a paper on pansies and exhibited a large collection of rare and beautiful specimens.

The Massachusetts Highway Association held its spring field-day at Boston on Tuesday, May 8. It took four tally-hos to carry the party through the park system, Charlesbank, the Charles River dam, now in course of construction, Back Bay Fens, Franklin Park and Franklin Field being visited under escort of Mr. Pettigrew and Mr. Shea. Lunch was served at Franklin Field. The various features of the boulevards and parks were inspected with much interest.

On every tongue—Horticulture's remarkable success.

SAN FRANCISCO NOTES.

Lack of money wherewith to rebuild San Francisco is not in evidence. Although our losses are gigantic, the resources available are still more gigantic. It is probable that Government aid in this direction will not be needed, for the financial interests that are now exploring this field from their standpoint calculate that the money received from insurance companies (provided that all pay their losses), estimated at about \$165,000,000, with the street railroad reconstruction, city bonds of 1904 still available, etc., will in themselves aggregate some \$207,000,000 in round numbers. In addition the regular commercial income of the port, domestic and foreign, will amount to a vast sum. Furthermore, Eastern syndicates with huge cash resources are already being projected for investment in the New San Francisco. One alone of these syndicates is said to have already \$100,000,000 ready for investment here. This will probably be applied in the form of secured loans to property owners, corporate and individual. Then there are thousands of capitalists all over the country who will be attracted to this inviting field for good interest-paying investments. Last, but by no means least, San Francisco itself, always a city of great cash resources, will rebuild largely with its own already existing capital, and indeed this capital is even now turning into the new work without any reference whatever to what outside capital is or is not going to do. Therefore we are thoroughly optimistic and believe not only in the speedy return of the all-around excellent ante-calamity normal conditions we enjoyed, but that the landscape gardeners will soon have plenty to do at remunerative prices, and the flower and plant growers who are daily bringing in wagon-loads of stock and freely distributing it to the inmates of scores of tented hospitals, and thousands of destitute tent-covered fire refugees, will ere long re-

This is a new hybrid cattleya recently bloomed at the greenhouses of C. G. Roebling, J. Goodier gardener.

cover the domestic trade that formerly made them well-to-do.

William Kettlewell, the chief landscape gardener and propagator of fancy bloom for the extensive Pope estate at the Burlingame suburb of San Francisco, drove into the un-

The parents are *Cattleya intermedia* and *Cattleya Mendelli Morganiae*.

burned section of the city this week just in the nick of time to delight Claude H. Smith, a wealthy citizen of Ithaca, N. Y., who had just arrived. He is one of the principal proprietary members of the Smith Premier Typewriter Company of Ithaca. He was engaged to be married next month to Miss Bessie Wilson, a San Francisco belle, whose brown-stone mansion was reduced to ruins by the great fire. After receiving no answer to repeated telegrams of inquiry he hastened to this city, and after seven days of diligent searching he found his destitute sweetheart and her parents in an army tent on the Presidio grounds near the Golden Gate, and an arrangement to have the June wedding take place immediately was consummated. Mr. Smith is an up-to-date man and wanted flowers for his wedding. He searched for them in vain one day this week among the few florists left in the unburned district. Next morning early he was at the earthquake-damaged store of Serveau Bros., when the Kettlewell wagon drove up loaded with American Beauties, teas and violets and not a few orchids. When Mr. Clark's full desire became known the entire wagonload was turned over to Serveau Bros., who immediately transported the supply to the wedding tent and decorated it extravagantly for the afternoon wedding, and at 6 o'clock the happy couple boarded a train for Ithaca.

HOUSE OF PHALAENOPSIS

At Mrs. B. B. Tuttle's, Naugatuck, Conn.



ABANDONED FARMS AND THEIR CAPABILITIES.

Abstract of an address given before the Massachusetts Horticultural Society by Prof. W. M. Munson, Orono, Me.:

One of the first reasons for the abandoned farms in New England is the inherent restlessness of the American boy. That this innate restlessness should take active form, however, was the result of changed conditions. The conditions and problems presented to the New England farmer of today are very different from those of even half a century ago.

The early farmers of New England worked hard, lived simply and had few debts, but also few of the comforts of life as we understand them at present. A race of sturdy, efficient men and women was the result; men and women who have made their mark wherever they have gone, in the gradual settlement and development of the country.

Many farms of the East have been literally carved from the hillsides, and the labor incident to the management of such farms is great. As a result, even during the first half of the last century, many of the best young men were attracted away from the old homes to the newly developed Northwest territories. With improved transportation facilities, which developed rapidly after about 1850, bringing eastern farms into direct competition with the cheap and fertile lands of New York, Ohio and Michigan, and soon with the black prairie lands of Illinois, Minnesota and the Red River, lands which could be had almost free of cost, the values of all agricultural lands in the East fell. The New England farmer found himself, with depleted soil and rigorous climate, growing wheat and corn which had to compete in the open market with similar products from the rich lands already mentioned. He found his sons leaving the old home and joining the ranks of the factory hands, or moving West to grow up with the country, and swelling the ranks of those with whom he must compete.

Instead of meeting the problems mentioned in the forceful, intelligent way we should expect from the sons of New England, the farmer of the East lost his grip and his spirit. He sought other professions, and "abandoned" and neglected farms became common.

A very important factor in the accumulation of abandoned farms is that of injudicious management. The old notion that "anybody could be a farmer" has been the cause of the undoing of a vast number of farms, as well as a much larger number of farmers. So-called "worn out" lands may

be the result of several distinct conditions; namely, they may lack humus, either from too much or from too little cultivation; they may lack plant food; they may have become acid; they may need draining; they may need tilling.

Having ascertained the reason for the condition existing in a given instance, the application of specific remedies is not a difficult problem. Deficiency in plant food may be met by the use of concentrated fertilizers. Lack of humus, one of the most common troubles, may be corrected by the use of green manure—as clover—in those cases where stable manure is not available. In cases of acidity of the soil, when leguminous crops cannot be grown for the supply of humus, an application of lime at the rate of from one to two tons per acre will accomplish wonders. The application of wood ashes, which contain thirty or forty per cent. of lime, with varying amounts of potash and phosphoric acid, are also frequently used with remarkable results.

The younger generation can scarcely realize that fruit growing is still in its infancy in New England, and that in this direction is the most hopeful outlook for the future of New England agriculture. From the earliest settlements on the Massachusetts coast till the present day, fruit has been grown in New England. Plums, peaches, pears and apples galore have been introduced from England, France and Belgium. Until about fifty years ago, however, there was very little of the fruit we know today; and that little was produced largely in the gardens of a few enthusiastic lovers of fruit. Apples were then produced from natural seedlings, growing without care or attention, and were of more importance for cider than for any other purpose. Pears of delicious quality were grown, but mostly on a small scale for home use or home markets.

But now all this is changed. We are beginning to recognize the fact that a large part of New England, rough though it be, and difficult of manipulation for the ordinary farm operations, is well adapted to the production of fruits of the highest color and finest quality. We are beginning to realize that with moderate annual expenditure for labor and plant food, we may reap a rich and sure return, and that right at our doors are the best markets in the world for a commodity which we can produce as readily as we can make shoes, cotton cloth or wooden nutmegs.

Over much of the area of New England apple trees are growing almost spontaneously; and wherever, in the past, seeds may have been scattered, we may find trees growing. These old trees, though neglected and broken by

storms, usually produce some fruit every year and are frequently loaded to the ground. When given half the chance of ordinary farm crops these same old trees, regrafted to varieties of recognized merit, become the most valuable assets of the farm. In this connection I have in mind an old orchard in Southern Maine, set more than eighty years ago and naturally somewhat decrepit now. In three successive years recently, this orchard, covering about two and one-half acres, yielded 650, 400 and 350 bushels respectively; which brought the owner \$480, \$300 and \$350, or an estimated net profit to the owner of seventy-five per cent. These old moss-covered, neglected veterans, hardy as maples and refusing to die, stand as living witnesses to the possibilities of New England's hillsides. Nor is the testimony confined to these old veterans. Very many modern instances of men who have accumulated a competence from old rocky pastures by the aid of the apple tree might be cited.

Phineas Whittier, Maine's "apple king," began his labors as a fruit grower about 1850 with the purchase of ninety acres of most unpromising rocky pasture and woodland for the sum of \$400, of which he was only able to pay \$75 down. Apple trees were set wherever a place could be found among the rocks, and today there are substantial buildings, including fruit cellars and evaporating house, and the annual returns from the orchard, which now covers nearly a thousand acres, are from \$3000 to \$6000.

Only a few weeks ago, in conversation with the owner of an "abandoned farm" in Maine, the following interesting facts were brought out. The owner, a resident of Waterford, Oxford County, was a young married man and wished to branch out somewhat in his farming operations. In 1886 an abandoned farm of 136 acres one and a half miles from home was bought for \$650. This is what is known as a hill farm, and apple seedlings grew almost spontaneously. At the time of purchase there was a thick growth of natural apple seedlings over the abandoned fields. Some of these had been top worked, and that year yielded twenty barrels of fruit. The same year the owner set three hundred trees and began grafting the other seedlings. Such wood and timber as there was on the place was sold on the stump at \$4.00 per thousand, instead of spending time and labor in clearing.

During the first three years the young orchard was cultivated and planted to corn, the old trees being in pasture, but there was an annual application of 8 to 15 pounds per tree of fertilizer, made up of 200 pounds nitrate of soda, 600 pounds muriate of potash and 600 pounds ground bone.

As indicating the earliness of fruiting, one of the top grafted trees, the third year from grafting, produced three barrels of Baldwins, and the fifth year five barrels. The tenth year (1896) there were sold from the place 275 barrels of Baldwins at \$1 per barrel, mostly from the top worked trees, of which there were about three hundred. In 1900 and 1904 the net returns from this small orchard on one of Maine's abandoned farms was nearly \$500. In 1905 the net returns were \$700, and the orchard is not yet at its best bearing

A BEDDING PLANT EMPORIUM.
Establishment of Ludvig Mosbaek.



age. In 1886 this gentleman in question was in debt \$1500. In twenty years he had raised a sturdy family, paid every debt and about \$1000 in doctor's bills, built a stable, a storage house and repaired other buildings, and has a snug bank account, substantially increased by the past year's returns. Best of all his boy is an enthusiastic helper and will follow in his father's footsteps.

The case cited is not an isolated one. There are hundreds of farms in Maine, and no doubt in other sections of New England as well, that would give even better returns on a similar investment. Last year a farm of fifty-seven acres, on which is a thrifty Baldwin orchard of 150 trees, was placed upon the market at \$1000. This same farm has repeatedly returned \$500 from the trees alone. The rest of the farm has been in hay until it is one of the "worn out" farms, but the buyer of such property is sure of liberal interest.

I have not referred to the brilliant successes of Terrill and Kinney of Vermont, Ricker of Maine, Solon Chase, whose record with "them steers" is familiar to many; nor to any larger operators like Hale of Connecticut, and others of Massachusetts, who have shown the possibilities of fruit growing. Suffice it to say there are hundreds of small orchards throughout New England which during the past ten years have averaged their owner a net profit of 15 to 40 per cent. on the investment.

In view of the recognized value of the orchard crop it is indeed surprising that orchard land in close proximity to railroad and steamboat points should be held so low. It is more surprising that there are not numerous syndicates for the exploitation of these orchard lands. There is not the slightest doubt that with proper management the owner of apple orchards in New England is surer of a liberal return on his investment than is the owner of orange groves in Florida or of silver mines in the West.

Some of the best orchard lands in Maine may be bought for from \$5 to \$50 per acre; and I know of hundreds of acres within one hundred miles of Portland that might rival the great orchards of the Ozarks.



The orchards already in bearing are sold at surprisingly low figures. But there is every indication that the tide has turned and that the fruit interests of the East are to receive a measure of the attention which their importance demands.

I would not minimize the difficulties attending fruit growing. Mice and countless hordes of insects and fungus enemies demand that the fruit grower be ever on the alert. But there is no business occupation which will permit a man to "sit and sing himself away to everlasting bliss." The successful orchardist must wage eternal warfare, just as is the case with any other successful business man.

A few years ago the secretary of the Maine State Pomological Society outlined a scheme for forming a fruit growers' stock company which, while it seemed altogether feasible, has not, so far as I am aware, been carried out in New England; though similar organizations are successful elsewhere. In the West and South companies have purchased land, planted trees on a large scale, sold capital stock, and declared satisfactory dividends. What has been done there can be done in New England.

There are few, if any, absolutely safe investments that will appreciate in value as rapidly as a New England orchard. Excellent fruit land may be purchased almost anywhere in New England for \$10 to \$50 an acre. If set with desirable sorts of apples and given intelligent treatment these same lands will at the end of ten years be worth at a low estimate \$100 an acre; while in fifteen years they will be returning a handsome dividend on a valuation of from \$300 to \$800 an acre.

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Primula obconica, Red,	\$0.30
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The increasing value of the orchard from year to year, up to twenty-five years of age, is an important factor in the problem. To be sure the orchard must be cared for and protected during the first ten years; but this is not by any means a dead load to carry. Many of the lands which may be included in the tracts purchased already contain profitable bearing orchards. Small fruits or sweet corn, potatoes or other hoed crops, may be grown in the young orchard to meet the expense of cultivation and fertilization. "Fillers" of Wealthy or some other early maturing sort, which will come into bearing in five years, will pay the expense of the orchard before the main trees reach their prime.

An investment of this nature will certainly stand investigation at the hands of conservative capitalists.

While I firmly believe in the future of New England as an apple producing region, there are many other ways in which the abandoned farms may be utilized to advantage. The reclaiming of "poverty flats," and similar unpromising areas in other sections of Massachusetts, has shown the capabilities of some of the lands as market gardens.

The unqualified success which attends the intelligent management of dairy herds in all parts of New England; the almost unlimited demands for the superior sweet corn which is grown in Maine and elsewhere; the success attending the extensive operation of Professor Sanborn of New Hampshire, in the line of general farming; the rapid advance in the production of potatoes since the introduction of improved methods; all of these and many more actual commercial operations, go to show the possibilities in the direction of a new agriculture for New England.

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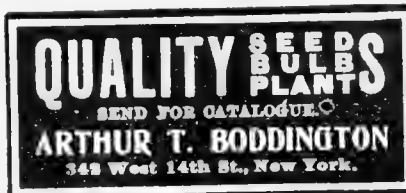
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Joseph Breck & Sons Corp.
Seeds and Agricultural Hardware
47-54 NO. MARKET ST., BOSTON, MASS.

INCORPORATED.

George McRea, Jr., Thomas P. Jenkinson and J. E. MacCloskey, Jr., have applied for a charter to be incorporated as the McRae-Jenkinson Company. They will assume the business of Innes & McRae at Cheswick, Pa., and grow plants and flowers for the Pittsburgh market, giving special attention to Begonia Gloire de Lorraine, cyclamens and poinsettias. Mr. Innes retires. Mr. Jenkinson has had a wide experience with large growers and is at present with A. R. Peacock of Pittsburgh.

CATALOGUES RECEIVED.

Metairie Ridge Nursery Co., New Orleans, La. First annual catalogue of greenhouse and garden plants.

Ludvig Mosbaek, Onarga, Ill. Wholesale price list of bedding and greenhouse plants, hardy perennials and vegetable plants. A strictly business document.

HOthouse GRAPE VINES,

fine strong, two and three year old canes, Black Hamburg, Muscat Alexandria and other varieties

Rose Hill Nurseries,
NEW ROCHELLE, N. Y.

BOXWOOD

For Edging.

(*Buxus suffruticosa*)

Bushy Transplanted Plants
6-8 inches.

Per 100 \$6.00 Per 1000 \$50.00

O. V. ZANCEN,
HOBOKEN, N. J.

ARTHUR COWEE
GLADIOLUS SPECIALIST

Meadowvale Farm

BERLIN, N. Y.

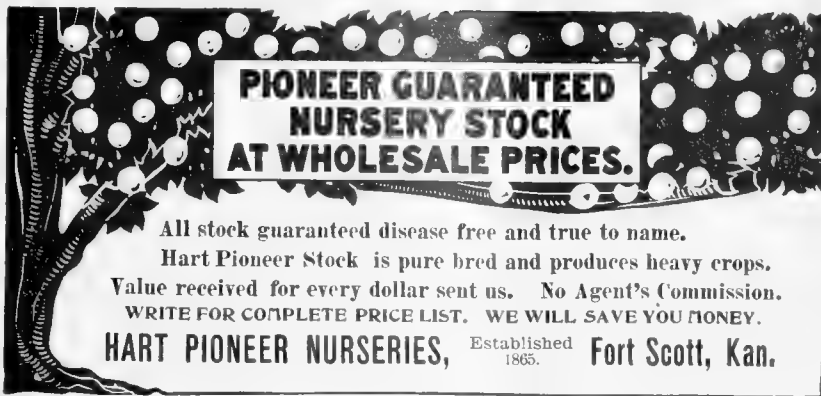
HAS UNDER CULTIVATION

OVER 100 ACRES

COMPRISING

The Best Mixtures, Collections
and Named Varieties in
Existence.

Write for 1906 Catalog



**PIONEER GUARANTEED
NURSERY STOCK
AT WHOLESALE PRICES.**

All stock guaranteed disease free and true to name.
Hart Pioneer Stock is pure bred and produces heavy crops.
Value received for every dollar sent us. No Agent's Commission.
WRITE FOR COMPLETE PRICE LIST. WE WILL SAVE YOU MONEY.
HART PIONEER NURSERIES, Established 1865. **Fort Scott, Kan.**

John Waterer & Sons, Ld. AMERICAN NURSERY BAGSHOT, ENGLAND

have the finest stock of recognized Hardy Rhododendrons, Azaleas, Andromedas, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

John Waterer & Sons are the great exhibitors of Rhododendrons in London.

To Induce Every One to Give Our CANNA PLANTS

a trial, we will send the following collections by Express, charges paid to any point within 1500 miles, for \$5 cash with order. Our plants are started in the field and are well supplied with fibre roots; are much better than greenhouse plants.

- No. 1. 25 each of 12 good named varieties, our selection
- No. 2. 50 " " 7 " " " " " "
- No. 3. 100 " " mixed Reds, Yellows, Pinks and Bronze Foliage kinds
- No. 4. 400 mixed, all colors, a grand assortment

If you only want half as many, send \$3.

Send for catalog.

SOUTHERN FLORAL NURSERY CO.,

FRUITDALE, ALA.

ROSES

Strong, 2 year old, dormant plants of H. P., H. T. and Climbers. Cheap to close out.

ROSEDALE NURSERIES

S. G. HARRIS

TARRYTOWN, N. Y.

CAPE JESSAMINES

A very fragrant, white flower with dark green foliage, suitable for all decorations. We guarantee time and condition of arrivals. 75 cts. per 100, \$6.00 per 1000.

SEASON, MAY 15 to JUNE 15

ASA WRIGHT,

ALVIN, TEXAS

Dahlia Roots and Plants

100,000 Box for Edging
No. 1, \$35.00 per 1000
No. 2, \$25.00 per 1000

DAVID HERBERT & SON,

Successors to L. K. Peacock, Inc.

ATCO, N. J.

J. H. TROY, New Rochelle, N. Y.

WILLIAM PLUMB
Landscape Gardener and
Horticultural Expert

Estates Large and Small Laid Out, Graded and Planted
St. James Building, 1133 Broadway
NEW YORK

FOREST TREE AND SHRUB SEEDS
AND SEEDLINGS

Catalpa Speciosa, Black Locust. Nursery grown and collected seeds and seedlings.

FOREST NURSERY AND SEED CO.

McMINNVILLE, TENN., R. F. D. 2

ANNOUNCEMENT

Some fourteen years ago I began the growing of carnations, and especially of seedlings, more as a pleasant occupation from which I derived considerable recreation and relief from business cares and worries. In a few years the results attained in my work proved so encouraging that I began the introduction of such new varieties as proved commercially successful and had received the approval of the retail florists of New York City.

This was done in the belief that the dissemination of the best results of my labors among the craft would prove beneficial and profitable to our carnation brethren. During the past two years I have become aware that more or less loss has been incurred by many in the trade who have purchased new varieties, either of others or of my own origination, and I have been subject to more or less unjust criticism from certain quarters.

While I have been unusually careful about keeping records, as well as conservative in the descriptions of the varieties sent out, I am convinced that no amount of care on my part will insure a certain proportion of growers to successfully cultivate the new varieties which I might introduce, and as the introduction of new sorts has always been done at a monetary sacrifice, I have decided to cease the active production of carnation plants and cuttings for sale as well as the introduction of new varieties, and from this onward the resources of the Cottage Gardens Carnation Department will be devoted to growing carnations exclusively for cut blooms.

I desire to take this opportunity to express my extreme gratitude to those who have shown a friendly interest in my work, and who have contributed to what little success I have attained by cheering me onward with words of genuine appreciation, and to assure those friendly spirits, who are above carping criticism, that so long as I continue to labor for the advancement of the divine flower, they will still be welcomed to the Cottage Gardens as they have been in the past.

Queens, L. I., April 24, 1906.

CHAS. W. WARD.

THE PAGOSCOPE.

(Translated by G. Bleicken.)

This is a device to register frost in the critical spring-time. The apparatus is invented by M. N. Bernel-Bourette, 36 rue de Poitou, Paris; the price is 20 fr. (\$5.) It has been tested and is recommended by several experiment stations and horticultural societies in France. The apparatus comprises two thermometers, fixed upon a zinc-plate frame, the lower portion of which contains a little reservoir, to be filled with water, not calcareous, however (rain or boiling water perhaps best); a cotton wick draws the water to a muslin envelope surrounding the base of the right hand thermometer.

About half an hour or so after sundown, we read the degree of temperature, indicated by the right-hand wetted thermometer, and place the end of a moveable arrow upon the corresponding figure on a plate on the top of the apparatus.

Now we read the left hand thermometer, follow up the figure obtained on a horizontal extending line clear across to the right hand thermometer, and notice the point where this line crosses the arrow, set, as stated above, to correspond with the right hand thermometer.

The field between the two thermometers is divided into three zones, red, yellow, green, which zones are not, however, equal. If the noted crossing occurs in the red field, danger of frost in the night and the following morning is certain, while should it cross the green field no danger exists; but should the crossing finally occur in the yellow field the case is doubtful either way. — *Revue Horticole*.

Geraniums, red, white and pink, 4 in. pots, \$7.00	
Cannas, Mad. Crozy, Alph. Bouvier, Egan-dale, Italia, Queen Charlotte.....	8.00
Scarlet Sage, 4 in. pots.....	7.00
Centauria Gymocarpa and Candidissima, 3 in. pots.....	5.00
Verbenas, 2½ in. pots.....	2.50
Petunias, 2½ in. pots.....	2.50
Double Petunias, 5 in. pots, fine.....	5.00

HERMANN SCHOENFELD

86th and Crothers Ave., Elmwood PHILADELPHIA, PA.

My Special Mum Offer

100 Plants in 10 Varieties for \$5 00

Send me a list of varieties that you already have, and I will send you 10 newer varieties that you ought to have, such as

Jeanne Nonin, White Coombes, Mrs. Swinburne, etc.

The great MORTON F. PLANT now ready at \$7.50 per doz., in 2¼ inch pots.

My motto is still the same. Your money back if not entirely satisfied.

CHARLES H. TOTTY
MADISON, N. J.

NEWS NOTES.

George Ostertag has been appointed superintendent of parks in St. Louis, Mo., to succeed Andrew Meyer, who takes the position of city forester.

John Driscoll and Ernest Read have bought the greenhouses of Thomas King in Fall River, Mass., and will make a specialty of raising cucumbers and tomatoes.

The buildings of the Sagadahoc Agricultural and Horticultural Society at Topsham, Me., were threatened with destruction by a forest fire on May 1, but the valiant efforts of the townspeople who started back fires checked the flames in time.

The Cox Seed Co., of San Francisco, Cal., whose offices and warehouses in Sansome street were destroyed by the late disaster, announce that they will resume busi-

ness at once with a warehouse at Oakland and temporary offices at 108 Cole street, San Francisco.

ARE YOU GOING . . TO BUILD

I am interested in a glass factory. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted. Attractive figures are offered in all sizes; but for anyone who can use the smaller cuts such as 8 x 10, 10 x 12, or 10 x 15, a specially favorable opportunity is open at present on account of a surplus. Don't wait. Higher prices will prevail soon.

Not in the Trust

ADDRESS

George C. Watson

164 Ludlow Street

PHILADELPHIA - - PENN.

Remember this factory is NOT in the TRUST and has a free foot.

PHILADELPHIA NOTES.

W. J. Baker has been having trouble with the Adams Express Company and went to court on Monday to have his wrongs righted. We trust he may be successful. It is pretty hard to get justice from big corporations with their unlimited funds for expensive legal talent.

A spasm of uneasiness was caused by the editorial in HORTICULTURE last week over the threatened increase in express rates. All hands sincerely hope that the fight is not to be fought over again.

A crying grievance of the trade here of late has been the abuse of credits. Perhaps in no other line of business is the system of credits so loose and unscientific as in the flower trade of this locality, and some reform is urgently needed. A meeting of the heads of a number of interested firms was held on the 3rd inst. for the purpose of forming a credit association. After a free discussion it was decided to leave the matter in the hands of a committee to formulate a workable system and report to a future meeting. George C. Thompson the new manager of the Michell Store entered on his duties on the 7th inst. Mr. Thompson is a native of Scotland and graduated after five years from the seed and nursery establishment of Benjamin Reid & Co. of Aberdeen. While still a young man, he has had twenty years of first-class experience and will undoubtedly fill his new position with success.

Director Potter of the Department of Public Safety ordered the fakirs off Market street on Friday last. They had become so numerous on this crowded thoroughfare as to be a serious obstruction to traffic. The order does not affect the other streets but it has had an appreciable bearing on the present glutted condition of the market.

Dr. John W. Harshberger delivered a lecture on "Phyto-geography of the Rocky Mountains" to the members of the Botanical Society of Pennsylvania on the 5th inst. The other speakers were Dr. A. F. Knout, "Hepaticas," and Dr. H. E. Wetherill, "Panama plant notes."

Trollius laxus (the Globe Flower) and *myosotis* are a conspicuous feature in made-up baskets and window decorations at present.

For outside covering of window boxes nothing seems to take better than cedar bark. S. S. Pennock appears to be the only one able to supply this important item. Try Sam.

Rupert Kienle of 17th street has a good idea. He carefully clips out and pastes into a big scrapbook all the good pictures of floral designs and decorations appearing in the trade papers. He has been doing it for a long time and now has a collection most useful to him and costing next to nothing. This wrinkle is worth dollars to all subscribers who may never have thought of it.

A SLIPPERY ACCOUNT.

In the case of D. T. McCarthy & Sons against the H. S. Taylor Nursery Company, of Rochester, Justice Lambert shortly before the opening of

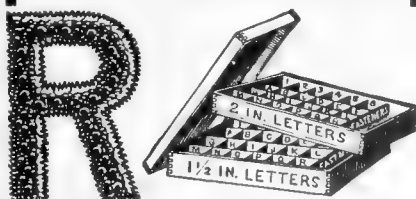
court Monday, April 24 directed a verdict for the defendant of no cause of action on motion of the defendant's attorney.

This is one of the peculiar cases arising under our present business incorporation law. Two Taylor brothers had for years conducted a nursery at or near Rochester under the name and style of H. S. Taylor & Co. In 1893 they with one J. Frank Norris organized a corporation by name The H. S. Taylor Nursery Company. It was undisputed that one of the Taylors came to the plaintiffs and bought trees, stating that Norris was a member of the concern, but signing the contract H. S. Taylor & Co. The plaintiffs claimed that they supposed that the name was still H. S. Taylor & Co., with Norris an addition to the company. Failing to get their pay they looked up the matter and found that Norris was not a member of the firm, but was a member of the corporation. They therefore sued the corporation, and it defended on the ground that the sale was made to the brothers Taylor as a firm and not to the incorporated company. The Taylor brothers owned all of the interest in the company or co-partnership and sixty per cent. of the incorporation. The court upheld the contention that the action had been brought against the wrong concern.

It is hard for the layman to understand the fine distinctions sometimes taken advantage of to avoid liability. Such cases, however, serve as a caution to dealers to be careful when dealing with corporations not to take the value of the letterhead as an indication of the financial prosperity of the concern. McCarthy & Sons had the trees and now they have them not. Taylors as company or corporation have had the trees and the benefits thereof, but the law decided that the company only should pay for them.—Lockport Daily Journal.

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 1/2. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.



WASHINGTON,
D. C.

GUDE'S

"Horticulture has proved itself positively the best advertising medium in the country for the lines it represents."

Florists

Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

546 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

DETROIT

John Breitmeyer's
Sons

Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

Artistic Designs
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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FLORIST

Connecticut Avenue and L Street,
WASHINGTON, D. C.

FRED C. WEBER
FLORIST

4326-28 ST. LOUIS, MO.
OLIVE STREET
Established 1873
Long Distance Phone Bell Lindell 676

Albany, N. Y. EYRES.

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON
TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N. Y.

SAMUEL MURRAY
Florist

Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO
Both Phones 2670 Main

ROSE PLANTS

BRIDES AND BRIDESMAIDS

2 inch pots ready for 3 inch

\$4.00 per hundred

\$35.00 per thousand

THE LEO NEISSEN CO. WHOLESALE FLORISTS

Store open 7 A. M. to 8 P. M. 1217 Arch St., PHILA.

In writing advertisers, mention Horticulture

GARDENIAS \$1.50 per dozen

CHOICE VALLEY \$3.00 and \$4.00 per 100

Samuel S. Pennock

The WHOLESALE FLORIST OF PHILA.

1612-1618 Ludlow Street. Store closes 8 P. M.

Carnations.

Beauty Bride and Bridesmaid.

Lily of the Valley.

Violets.

Telephone 6268-6267 Main

WELCH BROS.

15 Province St.

BOSTON



CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

E. F. Winterson Co.

45-47-49 Wabash Ave., Chicago

Wholesale Cut Flowers and
Florists' Supplies

CUT FLOWER ORDERS OUR SPECIALTY

The leading Florists supply house of the west
Supply Catalogue free.

PETER REINBERG
WHOLESALE

CUT FLOWERS

51 Wabash Av., Chicago, Ill.

In writing advertisers, mention Horticulture

E. H. HUNT

Wholesale

Cut Flowers

"THE OLD RELIABLE"

76 Wabash Av., CHICAGO

In writing advertisers, mention Horticulture

VAUGHAN & SPERRY

**Wholesale
Commission Florists**

If you wish to buy or sell, see them first

PHONE CENTRAL 2571

60 WABASH AVE., CHICAGO

Valley and Sweet Peas

W. E. McKEISSICK

Wholesale Florist

1221 Filbert St., PHILADELPHIA

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO May 8		ST. LOUIS May 8		PHILA. May 9		BOSTON May 10	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	20.00	to 25.00	20.00	to 25.00	15.00	to 20.00	12.00	to 20.00
" Extra.....	15.00	to 20.00	15.00	to 20.00	10.00	to 12.00	8.00	to 10.00
" No. 1.....	8.00	to 10.00	10.00	to 15.00	6.00	to 8.00	4.00	to 6.00
" Lower grades.....	2.00	to 6.00	4.00	to 8.00	1.00	to 5.00	1.00	to 3.00
Bride & 'Maid—Fan. & Sp.....	6.00	to 8.00	6.00	to 8.00	6.00	to 8.00	5.00	to 6.00
" Extra.....	3.00	to 5.00	4.00	to 5.00	4.00	to 6.00	3.00	to 4.00
" No. 1 and Lower gr.....	2.00	to 3.00	1.00	to 3.00	1.00	to 3.00	1.00	to 2.00
Liberty, Fancy.....	10.00	to 12.00	.....	to 12.00	12.00	to 15.00	6.00	to 8.00
" Ordinary.....	7.00	to 8.00	.....	to 2.00	2.00	to 8.00	1.00	to 4.00
Richmond, Fancy.....	10.00	to 12.00	10.00	to 12.50	12.00	to 15.00	8.00	to 10.00
" Ordinary.....	2.00	to 8.00	4.00	to 8.00	2.00	to 8.00	4.00	to 6.00
Golden Gate, Fancy.....	4.00	to 6.00	4.00	to 8.00	6.00	to 8.00	3.00	to 5.00
" Ordinary.....	1.00	to 3.00	1.00	to 3.00	1.00	to 5.00	1.00	to 2.00
Chatenay, Fancy.....	4.00	to 6.00	6.00	to 8.00	6.00	to 8.00	3.00	to 5.00
" Ordinary.....	1.00	to 3.00	1.00	to 3.00	1.00	to 5.00	1.00	to 2.00
CARNATIONS								
Fancy.....	2.00	to 3.00	1.50	to 2.00	2.00	to 3.00	1.00	to 2.00
Ordinary.....	.50	to 1.50	.75	to 1.00	1.00	to 2.00	.50	to .75
MISCELLANEOUS								
Cattleyas.....	.....	to 5.00	.....	to 5.00	5.00	to 10.00	4.00	to 5.00
Lilies.....	5.00	to 8.00	5.00	to 8.00	6.00	to 10.00	5.00	to 8.00
Callas.....	6.00	to 8.00	6.00	to 8.00	6.00	to 10.00	5.00	to 8.00
Lily of the Valley.....	3.00	to 4.00	2.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Violets.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.20	to .35
Tulips.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Sweet Peas.....	.50	to 1.00	.25	to .50	.50	to 1.00	.15	to .50
Mignonette.....	.....	to 1.00	1.00	to 3.00	1.00	to 2.00	.....	to 1.00
Adiantum Cuneatum.....	.75	to 1.00	.....	to 1.00	1.00	to 1.00	.75	to 1.00
" Croweanum.....	.....	to 1.00	.....	to 1.00	1.00	to 1.50	.....	to 1.50
Smilax.....	10.00	to 15.00	12.00	to 15.00	15.00	to 20.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	25.00	to 50.00	50.00	to 50.00	.....	to 50.00
" " & Sprenger bunches.....	35.00	to 50.00	25.00	to 50.00	50.00	to 50.00	20.00	to 35.00
Lilacs per 100 bunches.....	.....	to 1.00	.....	to 1.00	8.00	to 25.00	.....	to 25.00

J.A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and
Carnations
A Specialty.....

WHOLESALE
GROWER of **CUT FLOWERS**

EVERYTHING SEASONABLE IN
CUT FLOWERS

EDWARD REID, Wholesale Florist

1526 Ranstead Street, PHILADELPHIA

Store Closes 8 P. M.

VICTORY

We do not need to advertise Victory aggressively any longer. We are making prompt deliveries of Cuttings daily and are giving universal satisfaction. ENOUGH SAID!

CUT FLOWER MARKET REPORTS

BOSTON There is practically no change in business conditions this week. The inactivity prevalent since Easter is still in evidence. All kinds of stocks is abundant and the street men are a main reliance in unloading it. Roses are of excellent quality—worth more than the price they bring. Enchantment leads in value among the carnations, bringing fifty cents more per hundred than the average run but all move slowly, for the quantity offered is far in excess of the quantity wanted.

COLUMBUS A very satisfactory week in all lines has just closed. Everybody has been on the jump. Our florists have had a very fine run of orders, for besides the regular cut flower counter trade, flowers in many forms have been in large demand for graduating exercises of colleges and schools. Prices have softened somewhat during the week, but with outdoor flowers beginning to come, we expect it. As I told you last week our florists are very much surprised and pleased at the fine business being done since Easter. Our seedsmen and nurserymen have been doing a glorious business; every line of goods has sold and in large quantities. Outside of practice bowling by the bowling club, there has been nothing doing at the Florists' Club. The weather has been splendid for trade. All conditions most satisfactory.

DETROIT With the weather keeping bright and balmy the effect on business is quite noticeable. There seemed to be very little doing the past week in the larger class while some of the smaller weddings are being cared for each day. The wholesalers are not troubled with an over supply, the past week finding them more to the opposite. Carnations especially have been called for, with the supply exhausted. Sweet peas have been selling out very regularly due to the passing of violets. Lily of the valley does not seem to over supply the demand, it being quite brisk of late.

Lilies are plentiful and being used to good advantage. Roses are about the only stock in excess at the wholesale houses, there being lots of good stock. Hyacinths have almost disappeared. Blooming plants are selling briskly. Geraniums are being discussed by several florists here with a view to arranging better prices for this thrifty little plant.

INDIANAPOLIS The cut flower business which has been passably fair for some time took a serious drop with the coming of the month of May. Flowers of all descriptions are plentiful but notwithstanding this prices have kept up remarkably well. The quality of roses and carnations continues good. Bulbous stock and violets are a thing of the past for this season. Out door lilacs are in and sell cheaply. Judging from the amount of bedding stock carried by the majority of the growers they must be expecting the biggest trade in years. It is not considered safe to do any planting in this locality before the 15th of May hence nothing has been done so far in that line.

LOUISVILLE Business conditions the past week were very good on the average. Carnations are coming in in good quantities with the quality satisfactory and the demand steady. The same can be said of roses. Lily of the valley and sweet peas still continue popular. Mignonette sells slowly; lilies sell well but there is an over-abundance. There is no lack of other stock.

MINNEAPOLIS Business was a little slow last week but has started in at a merry clip this week. Seed merchants are working fast and furiously, for Minneapolis seeds are well-known the world over. The wholesale florists report good trade in roses and carnations with a little miscellaneous stock. Green goods disappear as soon as they arrive in the market. Several special sales on carnations cleaned out the surplus stock, and swelled the contents of the cash

register quite perceptibly. Several very pretty weddings and receptions have added considerably to the fame of some of our best decorators.

NEWS NOTES.

John A. Bopp, Cumberland, Md., opened a retail flower store at 46 Centre street, the first of May.

The greenhouses of Edward J. Hill of Ansonia, Conn., were struck by a cyclone on April 26. The roof and part of the end of the house were carried some distance away. Damage, about \$400.

Ottocar Jellinek, employed as gardener on the estate of Henry Wirth, Longmeadow, Mass., committed suicide by shooting himself through the heart on May 4. No reason for the act is known. He was about 28 years of age.

During the brief absence of the clerk from the office of S. A. McCullough, 98 St. Paul St., Brookline, Mass., the cash drawer was robbed of its contents, amounting to quite a sum. Later three men who had been seen about the premises were arrested.

The mayflower season at Cape Cod is at its height, and it is said the flowers are more abundant than in many previous years. The season is very short and the pickers devote themselves assiduously to their task, finding a ready market in Boston and New York. It is a custom of these Cape towns to allow the school children a half holiday in which to gather the flowers, and scores of boxes are forwarded to distant relatives and friends.

SEND US YOUR ORDERS

AND YOU WILL RECEIVE THE FRESHEST AND BEST STOCK TO BE FOUND AND AT THE LOWEST PRICES

No. 1 Dagger Ferns, \$1.25; Fancy Ferns, \$1.50 per 1,000

GALAX Green or Bronze, 75c per 1000, In 10,000 lots \$6.50

Southern Smilax 50-lb. case \$5.50

We can supply you with fresh made

LAUREL FESTOONING

gathered daily fresh from the woods, 4c, 5c and 6c per yard. Sample lot on application. BRANCH LAUREL, 35c per large bundle. Fine

line of Trees for decorating purposes. Try the beautiful Pine. Telephone or telegraph orders will receive prompt attention.

CROWL FERN CO., MILLINGTON, MASS.



FRANK MILLANG

Wholesale Commission Florist

COOGAN BUILDING

55-57 W. 26th Street, NEW YORK

Tel. 299 Madison Sq. Open 6 A. M. to 5 P. M.

FORD BROTHERS

48 West 28th Street, NEW YORK

FINE ROSES FANCY CARNATIONS

A Full Line of All CUT FLOWERS

Telephone. 3870 or 3871 Madison Square.

ALEX. J. GUTTMAN

THE WHOLESALE

FLORIST

OF NEW YORK

Phone 1664-1665 Mad. Sq. 43 W. 28th St.

HICKS & CRAWBUCK, Inc.Wholesale Commission Florists
and Jobbers in Florist's Supplies76 AND 78 COURT STREET
BROOKLYN, N. Y.Established
1891BUY FROM
SHIP TO
TRY **ME****ALFRED H. LANGJAHR**

All Choice Cut Flowers in Season

55 West 28th St., New York

Telephone 3924 Madison Square.

JOHN I. RAYNORWholesale Commission Florist **SELLING AGENT FOR
LARGEST GROWERS**A full line of Choice Cut Flower stock for all purposes. Comprises every variety
grown for New York market, at current prices

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Wholesale Commission Dealer in

Choice Cut Flowers

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Roses			Carnations, Fancy	2.00 to 4.00	2.00 to 4.00
Am. Beauty and Edgeley fan and sp.	10.00 to 15.00	10.00 to 15.00	Carnations, Ordinary	1.00 to 2.00	1.00 to 2.00
extra.....	6.00 to 8.00	6.00 to 8.00	Cattleyas	50.00 to 60.00	50.00 to 60.00
" No. 1.....	3.00 to 5.00	3.00 to 5.00	Lilies	3.00 to 6.00	4.00 to 6.00
" Lower grades.....	1.00 to 2.00	1.00 to 2.00	Callas	4.00 to 6.00	4.00 to 6.00
Bride & 'Maid, fan and sp.....	4.00 to 6.00	4.00 to 6.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
extra.....	3.00 to 4.00	3.00 to 4.00	Violets.....	.15 to .40	.15 to .40
" No. 1 and lower grades.....	1.00 to 2.00	1.00 to 2.00	Sweet Peas.....	.50 to .75	.50 to .75
Liberty, fancy.....	10.00 to 15.00	10.00 to 15.00	Alphonette.....	.50 to 1.00	.50 to 1.00
ordinary.....	2.00 to 8.00	2.00 to 8.00	Adiantum.....	.50 to 1.00	.50 to 1.00
Richmond, fancy.....	10.00 to 15.00	10.00 to 15.00	Cuneatum.....	1.00 to 1.50	1.00 to 1.50
ordinary.....	2.00 to 8.00	2.00 to 8.00	Croweanum.....	10.00 to 25.00	10.00 to 25.00
Golden Gate, fancy.....	5.00 to 6.00	5.00 to 6.00	Asparagus Plumosus	20.00 to 50.00	20.00 to 50.00
" ordinary.....	1.00 to 3.00	1.00 to 3.00	" & Sprenger, bunches	10.00 to 25.00	10.00 to 50.00
Chatenay, fancy.....	4.00 to 6.00	4.00 to 6.00	Lilacs per 100 bunches	10.00 to 50.00	10.00 to 50.00
ordinary.....	1.00 to 3.00	1.00 to 3.00			

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100 4 ft.	3 ft.	18.00
50 36 in.	24 in.	6.00
2 4 ft.	6 ft.	125.00
2 4 ft.	5 ft.	85.00
2 4 ft.	4 ft.	40.00

30 Pyramid Bay Trees, 8 to 9 ft. high, 3 ft.
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price for the pair, \$200.00.

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L. D. Telephone, Main, 2618.

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PER 100.
TO DEALERS ONLY.

	CINCINNATI May 8	DETROIT May 8	BUFFALO May 9	PITTSBURG May 7
ROSES				
Am. Beauty and Edgely. fan and sp.	30.00 to 40.00	20.00 to 40.00	..... to 25.00	20.00 to 25.00
" extra.....	25.00 to 30.00	15.00 to 20.00	15.00 to 20.00	12.00 to 15.00
" No. 1.....	10.00 to 20.00	10.00 to 15.00	10.00 to 15.00	6.00 to 10.00
" Lower grades.....	5.00 to 8.00	3.00 to 10.00	3.00 to 10.00	3.00 to 4.00
Bride and Maid, fan. and sp.....	8.00 to 8.00	6.00 to 8.00	..... to 8.00	8.00 to 10.00
" extra.....	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	..... to 6.00
" No. 1 and Lower gr.....	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00	2.00 to 4.00
Liberty, fancy.....	..... to 8.00	6.00 to 10.00	8.00 to 10.00	..... to 10.00
" Ordinary.....	3.00 to 5.00	4.00 to 6.00	3.00 to 5.00	..... to 10.00
Richmond, fancy.....	..... to 10.00	6.00 to 10.00	8.00 to 12.00	8.00 to 12.00
" Ordinary.....	..... to 4.00	4.00 to 6.00	3.00 to 5.00	4.00 to 5.00
Golden Gate, fancy.....	..... to 10.00	5.00 to 6.00	5.00 to 6.00	6.00 to 8.00
" Ordinary.....	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00	3.00 to 4.00
Chatenay, fancy.....	..... to 10.00	6.00 to 10.00	8.00 to 10.00	8.00 to 10.00
" Ordinary.....	..... to 4.00	4.00 to 6.00	4.00 to 8.00	2.00 to 4.00
CARNATIONS				
Fancy.....	..... to 3.00	..... to 3.00	2.50 to 3.00	2.00 to 3.00
Ordinary.....	1.00 to 2.00	1.00 to 2.00	1.50 to 2.00	1.00 to 1.50
MISCELLANEOUS				
Cattleyas.....	..... to 10.00	..... to 10.00	..... to 10.00	..... to 10.00
Lilies.....	10.00 to 15.00	10.00 to 15.00	6.00 to 10.00	8.00 to 15.00
Callas.....	8.00 to 10.00	..... to 12.50	6.00 to 10.00	6.00 to 10.00
Lily of the Valley.....	3.00 to 4.00	1.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Violets.....	..... to 2.00	..... to 2.00	..... to 2.00	25 to 40
Tulips.....	..... to 10.00	..... to 10.00	..... to 10.00	..... to 10.00
Sweet Peas.....	..... to 1.50	..... to .75	..... to 1.00	..... to 1.00
Mignonette.....	..... to 1.00	..... to 3.00	1.00 to 3.00	1.00 to 2.00
Adiantum Cuneatum.....	..... to 1.00	..... to 1.00	..... to 1.00	..... to 1.00
" Croweanum.....	..... to 1.00	..... to 1.00	1.25 to 1.50	..... to 1.00
Smilax.....	15.00 to 15.00	12.00 to 15.00	15.00 to 20.00	20.00 to 25.00
Asparagus Plumosus, strings.....	..... to 50.00	..... to 40.00	40.00 to 50.00	30.00 to 50.00
" & Sprenger, bunches..... to 35.00 to 40.00	25.00 to 50.00	40.00 to 50.00
Lilacs per 100 bunches..... to 10.00 to 10.00 to 10.00 to 10.00

Geo. A. Sutherland Co.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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Ageratums Pauline and Gurney, 2 1-4 in., \$2.00 100. Cash. T. C. Breece, West Berlin, Ohio.

ALTERNANTHERAS.

Alternantheras, red and yellow, 2-in., \$2.00 100; rooted cuttings, 50c. 100, \$4.00 1000. Brilliantissima, 2-in., \$2.50 100; rooted cuttings, 60c. 100, \$5.00 1000. Davis Bros., Morrison, Ill.

ASPARAGUS.

Asparagus Sprenger, 2 1-2-in., \$2.25 per 100. Otto Bourdy, Lowell, Mass.
Asparagus Sprenger Plants out of bench large clumps planted last June out of 3 in. pots, \$8 and \$10 per 100, by James Crawshaw, Providence, R. I.

Asparagus Plumosa, 2 in. pots. Blue plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.
Asparagus Sprenger, from flats, \$5.00 per 1000. J. F. Allen, Orlando, Fla.
Asparagus plumosus nanus seed. Clean, fresh seed, \$1.25 per 1000. J. F. Allen, Orlando, Fla.

ASTERS.

Asters. Transplanted Queen of the Market, Carlson, white, rose pink, lavender. Mail, 50c. per 100; express, \$3.00 per 1000. Cash. J. W. Dunford, Clayton, Mo.

BAMBOO STAKES.

Yokohama Nurseries, 31 Barclay St., New York.
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BOG PLANTS.

Bog plants, including Dionaea muscipula, Sarracenia flava, purpurea, rubra, etc. Write for prices. James M. Lamb, Fayetteville, N. C.

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CANNAS.

Southern Floral Nursery Co., Fruitdale, Ala.
High Grade Cannas.
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Canna Alemannia, dry or started roots, \$2.00 per 100. J. H. Krone, Jr., Fort Smith, Ark.

10,000 fine potted stock ready to plant. 20 best sorts. List free. Benjamin Connell, West Grove, Pa.

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Asa Wright, 813 Ave. H, Galveston, Tex.
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Carnations, Queen Louise and Norway, fine, healthy stock from soil, \$9.00 1000; Boston Market, 1 3/4 in., \$2.00 per 100; \$18.00 per 1000. Cash.
J. W. Dunford, Clayton, Mo.

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Agave Americana (Century Plant) from 2 1/2 to 3 and 4 inch pots, cheap. Send for price lists. James M. Lamb, Fayetteville, N. C.

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G. S. Kalb, Florence Teal, Glory of Pacific, Polly Rose, Willowbrook, Golden Trophy, Robt. Hailday, D. W. Childs, John Shrimpton, Maj. Bonafont, Col. Appleton, Niveus, Bride, Pink Ivory, White Ivory, Vivland Morel, Cullingfordii, Ermanilda, Arelina, Nagoya, Maud Dean, Mutual Friend, W. H. Lincoln, Black Hawk, Mrs. Jerome Jones, F. G. Jones, Golden Wedding, Timothy Eaton, Mme. F. Perrin, Wm. Duckham, \$1.50 per 100; \$12.50 per 1000. Address W. F. Kasting, 383-387 Ellicott St., Buffalo, N. Y.

Halliday Bros., 329 N. Charles St., Baltimore, Md.

5000 best commercial sorts. List free. Benjamin Connell, West Grove, Pa.
Appleton chrysanthemums, 2 1/4-in., \$2.50 100. Cash. J. W. Dunford, Clayton, Mo.

CLEMATIS.

Clematis paniculata, 2-yr., transp., \$6 per 100; 1-yr., strong, \$4 per 100. H. Y. Teas, Centreville, Ind.

COBAEAS.

Cobaea scandens, \$1.00 100. Express paid. Chas. Gay, Des Moines, Iowa.

COLEUS.

H. N. Eaton, So. Sudbury, Mass., Rooted Cuttings.
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COREOPSIS.

Coreopsis lanceolata, 2-12 in. pots, \$2.50 per 100. E. Y. Teas, Centreville, Ind.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.
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Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN PLANTS.

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DIGITALIS.

Digitalis in variety, for June flowering. Extra strong plants, \$5.00 per 100. Shatennue Nurseries, Barrytown, Dutchess Co., N. Y.

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Scott Fern.

FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

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J. Brettmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.

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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.

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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
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Edwards Folding Box Co., Philadelphia.
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GERANIUMS.

Wm. S. Herzog, Morris Plains, N. J.
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Geraniums, 4-in., in bud and bloom, good varieties, \$7.00 100; strong, 2½-in., \$2.50 per 100. Cash.
J. W. Dunford, Clayton, Mo.

Geraniums, large top cuttings, well rooted; Peter Henderson, \$2.50 per 100; Trego, \$2.00 per 100, \$18.00 per 1000; S. A. Nutt, Mrs. E. G. Hill, Beaute Poitevine, Jean Viand, Mme. Buckner (best white), \$1.50 per 100, \$14.00 per 1000. The W. T. Buckley Co., Springfield, Ill.

GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin, N. Y.

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Gladioli. Colors, mixtures and named. All sizes. Also bulblets. E. E. Stewart, Rives Junction, Mich.

GLASS.

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., Boston.
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G. C. Watson, 1614 Ludlow St., Philadelphia.

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Glass, French and American "White Rose" brand. Stenzel Glass Co., 2 Hudson St., New York.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Square, New York.

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Hitchings & Co., 1170 Broadway, New York.

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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.

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Adam Schillo Lumber Co., West St. and Hawthorne Ave., Chicago, Ill.

Weathered Co., 46 and 48 Marion St., New York.

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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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S. Jacobs & Sons, 1398-1408 Metropolitan Ave., Brooklyn, N. Y.

GREENHOUSE GLAZING, PAINTING, BULBING.

W. A. Bruce, 1 Columbus Square, Boston
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GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for Florists.
Mineralized Rubber Co., New York.
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HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston, Mass.
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The Kervan Co.,

20 W. 27th St., New York.

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Michigan Cut Flower Co., 38 and 40 Miami Ave., Detroit, Mich., Wm. Dilger, Mgr.
Fancy Ferns.

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Crowl Fern Co., Millington, Mass.
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HARDY HERBACEOUS STOCK.

Palisades Nurseries, Sparkill, N. Y.

HARDY PERENNIALS.

Ludvig Mosbaek, Onarga, Ill.
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Henry A. Dreer, Philadelphia.

HEATING APPARATUS.

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Pierson U-Bar Co., 1 Madison Square, New York.

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Hitchings & Co., 1170 Broadway, New York.

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John A. Scollay, 73 & 75 Myrtle Ave., Brooklyn, N. Y.

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Gurney Heater Mfg. Co., 74 Franklin St., Boston, Mass.

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Kroeschell Bros., 35 Erie St., Chicago.
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HONEYSUCKLES.

Japanese honeysuckles, fine for vase and box work, strong plants, 2½ in., \$2.50 per 100. Harvey B. Snow, Camden, New York.

HOTHOUSE GRAPE VINES.

Rose Hill Nurseries, New Rochelle, N. Y.
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IMPATIENS HOLSTII.

C. Winterich, Defiance, O.
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R. M. Ward & Co., New York.
Plants and Bulbs.
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INSECTICIDES.

Perfection Chemical Co., Flushing, N. Y.
Carman's Antipest.

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Nicotine Mfg. Co., St. Louis, Mo.

Nikoteen.

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Hammond's Paint & S. S. Works, Fishkill, N. Y.

Horlucum.

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JAPANESE PLANTS.

Yokohama Nurseries, 31 Barclay St., New York.

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LANDSCAPE ARTIST.

William Plumb, 1133 Broadway, New York.
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LAWN MOWER SHARPENER.

G. C. Watson, 1614 Ludlow St., Philadelphia.

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H. Bayersdorfer & Co., Philadelphia.
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MOONVINES.

Godfrey Aschmann, 1012 Ontario St., Phila.
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MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
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NURSERY STOCK.

Forest Nursery & Seed Co., McMinnville,
Tenn.

Forest Tree and Shrub Seeds.
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Hart Pioneer Nursery, Fort Scott, Kansas.
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J. H. Troy, New Rochelle, N. Y.
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John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
Hardy Rhododendrons, Azaleas, Conifers
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NYMPHEAS.

Odorata Rosea and Marliacea Chromatella,
strong roots, \$3.00 per doz. W. I. Bodfish,
West Barnstable, Mass.

H. A. Dreer, Philadelphia.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists
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Julius Roehrs Co., Rutherford, N. J.
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PANSY PLANTS.

Geo. Sanderson & Son, Weston, Mass.

PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
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Elmwood, Phila.

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Ludvig Mosback, Orange, Ill.
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Coleus, Verschaffeltii, Golden Bedder.
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W. W. Edgar Co., Waverley, Mass.
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H. F. Michell Co., Philadelphia.
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PLANTS HARDY.

M. H. Walsh, Woods Hole, Mass.
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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PUTTY.

Benj. Hammond, Fishkill on Hudson, N. Y.
Twenlow's Old English Glazing Putty.
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RETAIL FLORISTS.

Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.

Alex. McConnell, New York.
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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Brettmeier's Sons, Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway,
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Gude Bros. Co., 1214 F St.,
Washington, D. C.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pye, Upper Nyack, N. Y.
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Rose Hill Nurseries, New Rochelle, N. Y.
Roses, Killarney.
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A. N. Pierson, Cromwell, Conn.
Grafted Roses.
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George A. Kuhl, Pekin, Ill.
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H. A. Dreer, Philadelphia.

Richmond roses, 21-2 in. pots, strong, vig-
orous stock, \$8.00 per 100; \$70.00 per 1000;
4000 plants. Joy & Son Co., Nashville,
Tenn.

Roses, 21-2 in. pots, Kaiserines and 300
President Carnots, \$4.00 per 100, \$35.00
per 1000. Cash with order or good refer-
ence. Wm. F. Kasting, 385 Ellicott St.,
Buffalo, N. Y.

Roses, Baby Rambler, the strongest dor-
mant stock in the country, \$25.00 per 100;
2 1-2 in. pot plants, \$7.00 per 100, \$65.00
per 1000. Brown Bros. Co., Rochester,
N. Y.

Crimson Ramblers, extra strong, 2 yrs.,
\$8.00 100. White Ramblers, Yellow Ram-
blers, etc., \$5.00 100. H. P. roses, 50 va-
rieties, 2 yrs., own roots, \$9.00 100.
Gilbert Costich, Rochester, N. Y.

Roses, Bride, Maid, Ivory, Gate, Uncle
John, Chateaufort, Perle, 2 1/2 in., \$3.00; 3 1/2 in.,
\$4.00; 4 in., \$5.00; 1-yr.-old plants, from
bench, \$4.00 100, cash.

J. W. Dunford, Clayton, Mo.

SEEDS.

T. J. Grey & Co., 32 So. Market St.,
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co.,
36 Cortlandt St., New York.

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H. F. Michell Co., 1018 Market St.,
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R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.

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H. A. Dreer, Philadelphia.

Flower Seeds.

Wm. Elliott & Sons, 261 Fulton St., N. Y.
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A. T. Boddington, 342 W. 14th St., New
York.
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Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O.
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SMILAX.

Seedling smilax from flats, 25¢ per 100,
\$2.00 per 1000. Postpaid. Harvey B. Snow,
Camden, New York.

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
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H. R. Akers, Chatsworth, N. J.
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E. Hippard, Youngstown, O.
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Igloe Bros., 226 North 9th St.,
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J. C. Schmidt Co., Bristol, Pa.
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Hitchings & Co., 1170 Broadway,
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John A. Scollay, 73-75 Myrtle Ave.,
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

VINCAS.

E. & C. Woodman, Danvers, Mass.
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35,000 myrtle, Vinca minor, \$10.00 to
\$50.00 per 1000. S. J. Galloway, Eaton,
Ohio.

Vinca minor var., 2 1-2 in. pots, \$4 per
1.0. E. Y. Teas, Centerville, Ind.

VIOLETS.

H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

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ton.

George A. Sutherland Co., 34 Hawley St.,
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A. L. Randall Co., 21 Randolph St., Chicago.

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J. A. Budlong, 37 Randolph St., Chicago.

E. H. Hunt, 76-78 Wabash Ave., Chicago.

Chas. W. McKellar, 51 Wabash Av., Chicago.

Peter Reinberg, 51 Wabash Av., Chicago.

Vaughan & Sperry, 60 Wabash Av., Chicago.

E. F. Winterson Co., 45, 47, 48 Wabash
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Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.

Wm. Murphy, 128 E. 3d St.

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 Ford Bros., 48 West 28th St., New York.
 H. E. Froment, 57 W. 28th St., New York.
 Alex. J. Guttman, 43 West 28th St.
 E. C. Horan, 55 West 28th St., New York.
 Philip F. Kessler, 55 W. 26th St., New York.
 Julius Lang, 53 West 30th St., New York.
 A. H. Langjahr, 55 W. 28th St., New York.
 James McManus, 42 W. 28th St., New York.
 Chas. Millang, 50 West 29th St., New York.
 Frank Millang, 55-57 W. 26th St., New York.
 A. Moltz, 55-57 W. 26th St., New York.
 John J. Perkins, 115 W. 30th St., New York.
 John I. Raynor, 49 W. 28th St., New York.
 W. F. Sheridan, 39 W. 28th St., New York.
 Traendly & Schenck, 44 W. 28th St., N. Y.
 John Young, 51 W. 28th St., New York.
 Hicks & Crawbuck, Inc., 76 and 78 Court St., Brooklyn, N. Y.

Philadelphia.

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 W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
 Leo Nlessen Co., 1217 Arch St., Philadelphia, Pa.
 S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
 Edward Reid, 1526 Ranstead St., Philadelphia, Pa.

Pittsburg.

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 J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue.**ANNOUNCEMENT.**

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BOXWOOD FOR EDGING.

O. V. Zangen, Hoboken, N. J.
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CANNAS.

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CHRYSTANTHEMUMS.

Charles H. Totty, Madison, N. J.
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DRACAENAS, BEDDING PLANTS, ETC.

Converse Greenhouses, Webster, Mass.
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ROSES.

S. J. Reuter, Westerly, R. I.
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ROSES.

S. G. Harris, Rosedale Nurseries, Tarrytown, N. Y.
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VEGETABLE PLANTS.

Plainfield Nursery, Plainfield, Ind.
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WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR SALE—Old established florist business, 5000 feet of glass, six acres of land well cultivated, within one mile of centre of a city with 100,000 population. Old age only reason for selling. Address Mack, care HORTICULTURE.

WANTED—To purchase collection of Orchids from private parties. Address, Gerndt & Company, 24 Clinton street, Newark, N. J.

THE LATEST IMPROVEMENTS IN GREENHOUSE BUILDING.

A paper read before the Florists' Club of Philadelphia, May 1, 1906, by
 Dennis T. Connor.

(Continued from page 602.)

I don't have to tell you that cypress is the best and only wood to use about a greenhouse, and I would like to impress on the florist that the word "cypress" don't mean that you get the best wood. We find several kinds of cypress on the market, and the selection of this should be left to experienced and reliable greenhouse builders. The cypress should always be air dried and free from sap.

One of the most important things about greenhouse building is the use of good putty. Secure your stock where you know it is made of pure linseed oil and the best whitening. I meet every day florists that use good material in building their houses, and use a poor grade of putty, the "Marble Dust Brand" often mixed with white lead; this makes the cost of your putty greater, and then you have poor material. I was surprised the other day to meet a man who told me that tons of putty is made at the beef packing establishments in the West. We all know that putty made of beef fat will not take hold of wood. No doubt some of this brand finds its way under greenhouse glass. If you secure good putty you do not have to mix white lead with it.

It is well known that white lead and pure linseed oil is the proper paint to use for all woodwork. Another good point in greenhouse construction is the glazing nail. We have a number of kinds to select from, and nearly every florist believes one to be better than the other. I believe the zinc shoe nail is the only nail to use to hold your glass down; you will find it will take a good hold in the wood and stay with you.

A few words about glass for greenhouses. Second-quality glass is what is used mostly, and occasionally we find some one that use single thick. In case of a hail storm there will be less breakage where double thick is used. I would advise florists to use double thick glass. I believe glass should be spaced sixteen inches in width; we find this makes a less stronger house, and there is less breakage.

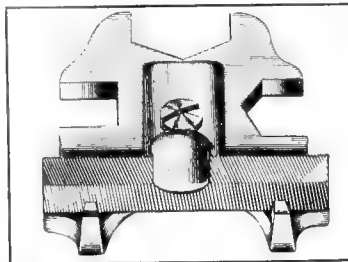
The arrangements of benches is generally left to the florist. These are planned to suit the kind of stock grown; they should be placed so that the walks come along the sides of the houses. You get a better circulation of the air, and the houses will last much longer. The cypress material is best for the bottoms of benches; while the cost is greater, it will outlast any other kind of wood, and will be cheaper in the end.

Concrete made of ashes, sand, and cement is now generally used to make solid beds. I believe in the next ten years concrete will be an important factor in the building of greenhouse foundations.

The ventilation of houses is an open question with the florist. Some want continuous lines on both sides, and others with top sash and spaces between. We have had very little call for side ventilation on commercial

WHY PAY \$1.50

every time you want your Lawn Mower sharpened? The little dingus we advertise herewith will do it in five minutes and better than any machine shop. We've tried it ourselves and know what we are talking about. A child can do it. Entirely new



and away ahead of any similar device on the market. Has eight cutting surfaces that can be used in succession. Made of the highest grade crucible steel. Will last a life-time. Try it.

Postpaid 75c. Postpaid

Show it to your friends. A liberal discount allowed to agents. Satisfaction guaranteed. It's the greatest little article you ever saw, simple as it looks.

GEO. C. WATSON

Seedsman 1614 Ludlow St. Philadelphia

FOR RENT

TEN GREENHOUSES in running condition; possession immediately; \$50. Dwelling house attached, \$12; or will run on shares.

Apply **TRAENDLY & SCHENCK,**
 44 W. 28th Street, N. Y.

houses. I believe houses 28 feet wide and over should have continuous sash on both sides of the ridge

"Putting the saddle on the right horse"—Advertising in Horticulture.

LIST OF PATENTS.

Issued April 24, 1906.

- 818,510 Lawn-Edge Trimmer and Ditcher. James M. Aldrich, Adrian, Mich.
 - 818,552 Fruit-Clipper. Howard H. Petty, Pomona, Cal.
 - 818,678 Tree-Protector. Adam C. Garrison, Joplin, Mo.
 - 818,708 Lawn-Trimmer. Henry B. Pitner, Olean, N. Y.
 - 818,751 Broom-Rake. Newton Dort, Cleveland, Ohio.
 - 818,916 Fruit-Drier. Mack Rodgers, Gravette, Ark.
- Issued May 1, 1906.
- 819,176 Lawn-Trimming Device. Harry O. Secrest, Cleveland, Ohio.
 - 819,181 Convertible Spade and Hoe. John P. Stenstrom, Mora, Minn., assignor of one-third to Anton Peterson and one-third to Andrew M. Anderson, Mora, Minn.

GREENHOUSES BUILDING AND PROJECTED.

Saginaw, Mich.—The Wm. Roethke Floral Co., four houses, each 27x300.
 Jamestown, N. Y.—Lake View Rose Gardens, range of houses, each 15x200.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

The Standard Steam Trap



Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

E. HIPPARD, Youngstown, Ohio

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	170 7 in. pots in crate \$4.20
1500 2 1/2 " " " 5.25	60 8 " " " 3.00
1500 3 " " " 6.00	
1000 3 " " " 5.00	HAND MADE
800 3 1/2 " " " 5.80	48 9 in. pots in crate \$3.60
500 4 " " " 4.50	47 10 " " " 4.80
320 5 " " " 4.51	24 11 " " " 3.60
144 6 " " " 4.16	24 12 " " " 4.80
	12 14 " " " 4.80
	6 16 " " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower .. POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money.

W. H. ERNEST.

28th and M Streets, WASHINGTON, D. C.

WEATHERED COMPANY

46 MARION ST., NEW YORK

GREENHOUSE BUILDING AND HEATING

Send for Catalogue.

BY SLIP-PIING A

PEERLESS GLASS REPAIR CLAMP

over a cracked glass you protect your stock, save coal and glass. Do it now before the high winds play havoc with your roofs. \$1.00 will repair 150 lights. Ask your supply man, or

A. KLOKNER, Wauwatosa, Wis.

Endorsed by about 400 prominent florists.

Holds Glass Firmly
See the Point
PEERLESS
Glazing Points are the best.
No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.



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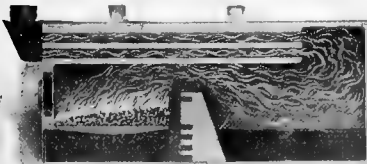
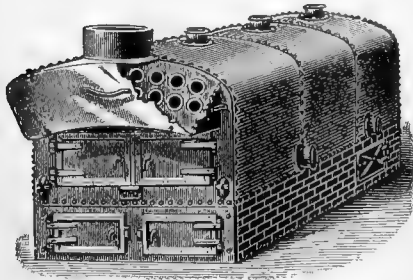
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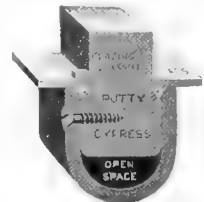
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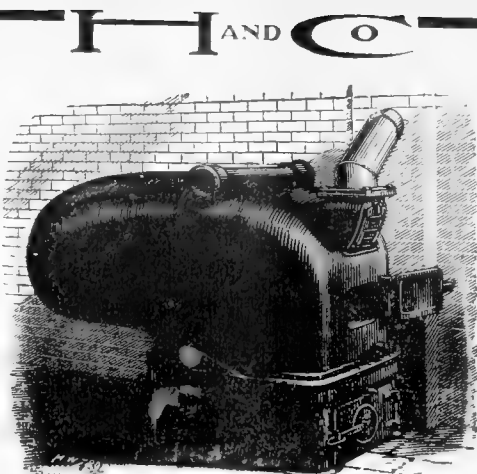
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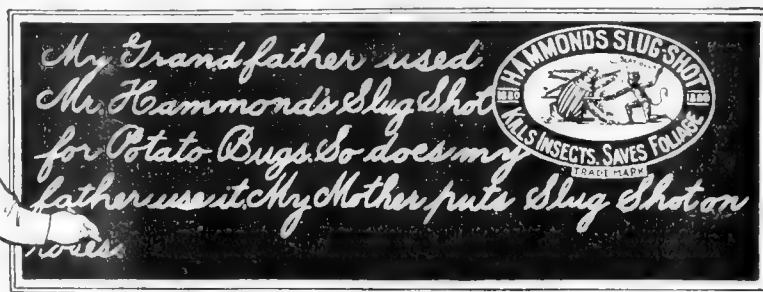
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HORTICULTURE

Vol. III.

MAY 19, 1906

No. 20



TRAILING ARBUTUS

By J. C. V. E. 1906

"Once more I hear the softly whispering forest,
And see the sifted May day sunlight glade
Over the spongy moss and slender roots
That shield the crannies where the blossoms bide."

Devoted to the
**FLORIST, PLANTSMAN,
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A Swivel Wheel \$2.00 and Six Half-inch Nozzles at 50c Each.

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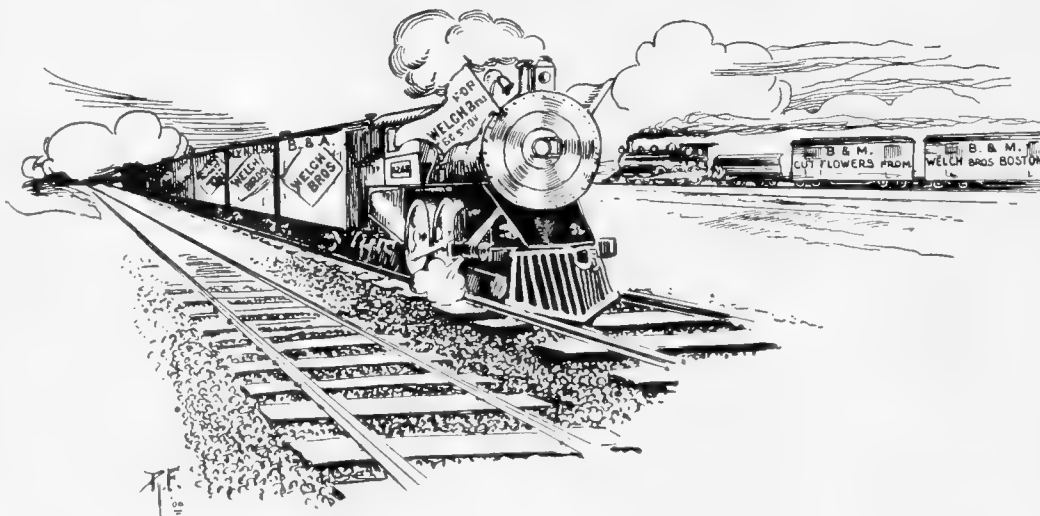
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VOL III

MAY 19, 1906

NO. 20

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The Loganberry

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Forsythia suspensa

Forsythias are blossoming most profusely this year. They are glorious shrubs! How kind they are to give us such a generous feast right after winter. They are one of the harbingers of spring in the shrub line. They have hastened along with their golden blossoms having no time to wait for the leaves to develop.

There are many shrubs which blossom in early spring which are destitute of leaves but the colors of the flowers in most cases are quite agreeable without the green foliage. Nature has made no mistake in producing the flowers before the leaves. They are not produced in this condition for man alone to enjoy them but insects also love the early spring flowers. The insects no doubt after a long winter's rest find it much easier to extract honey from flowers which have no green leaves amongst them and the flowers are also more easily seen.

I often think we don't half appreciate the beauties of spring. With the sunshine and rain there are most marvellous transformations of vegetation taking place every hour of the day. Yet people seem to take very little notice of it. There is no season of the year like spring, nearly every herb and plant is clothed anew. How few of us think of the enormous work these new green leaves have to perform. They are not produced just to look at, they have a tremendous work to perform before they return to Mother Earth next fall.

I must return to my subject but I should like to write you a sermon on spring. I pity the poor florist who is confined to his glass houses in glorious spring weather like what we are having now. It's strenuous work, digging, raking, planting, sowing, etc., but the invigorating fresh air, the music of birds, and the fragrance of spring flowers, makes a person feel glad that he is alive in such a wonderful and beautiful world as this is.

The plant in the picture I am sending you is *Forsythia suspensa* and is well-known to gardeners and florists, but it is not often used as it is shown in this picture. It is simply superb just now. This is a



gardeners' house but there are few millionaires that can boast of such an entrance to their castles.

Robert Cameron

Tomato Tip Rot

A short time ago I received this letter which may be interesting to others having the same trouble and at a loss to account for it:

"I planted a house of young tomato plants out of 2 1-2 inch pots on the 30th of January on solid beds. The plants grew very slow till latter part of February. Then I put a light top dressing of old manure on and after that time the plants are rank and healthy at the tops and blooming freely and setting well but half of the tomatoes when yet small on the first two bunches are rotting and some even on the 3rd and 4th bunch."

The plants are no doubt affected with what is variously known as point, tip or green rot, something common in tomato forcing houses. It is not a fungus disease, but a physiological disorder and is due to a lack of water in the soil. As the plants grow they require a

large amount of water and if, as in this case, the evaporation exceeds the supply, there will be a breaking down or "rotting" of the fruit.

Here, this condition is probably brought on by the plants being in solid beds. Frequent waterings pack the soil so that the top layers may be soaking wet while the lower ones are dust dry, the water running off instead of being absorbed, thus starving the roots.

The remedy is to be found in a careful use of the hose. If the top layers are kept mellow and in good tilth, and the bed thoroughly soaked down at each and every watering there will be no more trouble from this source.

R. S. Adams

HORTICULTURE FREE TILL JULY

All subscriptions, new or renewed, sent in between the present time and July 1 will be dated ahead to July 1. Send your dollar. No time like the present time.

Seed Separation

The separation of tobacco and onion seed is now quite extensively used by the growers of these crops in the Connecticut valley.

The Botanical Department connected with the Experiment Station at Amherst has installed an equipment for seed separation, and quite a large amount of onion and tobacco seed has been separated this spring for growers of these crops.

The method of separation employed is based upon the use of air. For the separation of onion seed we have employed a winnowing machine, which is supplied by a German manufacturer. This machine separates very effectually all the light seed from the heavy ones, and is capable of separating fifty pounds in a brief period of time. Tobacco seed has been separated by means of a foot bellows attached to a glass tube. The lower end of the tube is covered with a piece of coarse-meshed cloth, and the air is driven up through by means of the foot bellows. The chaff and light seed are driven to the top of the tube into another receptacle. The amount of light seed and chaff in tobacco and onion seeds runs all the way from five to twenty per cent., or more. These seeds are discarded by the grower, and only the larger and better ones are used.

The benefit derived from the practice of separating seed is important enough to be more extensively recognized. There is no reason why the practice of seed separation should not be employed in connection with various lines of green-house work, such as, for example, lettuce, radish and beet crops, except perhaps when the latter are used for greens. Many experiments have shown that large seed produce larger plants; they germinate better, and will prove more desirable for use.

The accompanying illustration gives the results of separating lettuce seed. The separation in this case was accomplished with sieves, provided with round perforations.

The percentage of seed ranging from 2 to 1.5 mm. was 10.15 per cent.; from 1.5 to 1 mm., 66.88 per cent. From 1 to .5 mm., 18 per cent., and below .5 mm., which consisted mostly of dirt and chaff, 4.19 per cent. The percentage of germination and weight of the seedlings in milligrams of the various grades of lettuce was as follows:

LETTUCE.

Size of sieves.....	2-1.5 mm.	1.5-1 mm.	1-.5 mm.
No. seeds germinated....	43 per ct.	35 per ct.	19.6 per ct.
Av. wt. of seedlings.....	43.3 mg.	41.0 mg.	31.6 mg.



It will be observed that the highest percentage of germination occurred with the largest seed, and that there was quite a difference between the percentage of germination of the seed obtained from the two lower grades of sieves. The average weight of the seedlings also is highest in those obtained from the large sieve, slightly lower in the second-grade sieve, and smallest in the lowest grade sieve. What passed through the 1-.5 mm. sieve was merely dirt and chaff, and of no use. At least 4 per cent. of the material bought in this sample of seed was of no value.

For the separation of lettuce seed on a practical basis, it would not be necessary to employ sieves such as were used in these experiments. One sieve would be sufficient for all purposes, and such a sieve should have perforations of about 1 mm. in diameter. Everything retained by this sieve can be planted; everything that passes through should be rejected.

In the experiment given here, such a sieve would reject about 22.91 per cent. of seed and chaff—in other words, it would reject the seed and chaff in the two right-hand bottles shown in the illustration.

If a greater degree of separation is required, a larger sieve could be employed—namely, one measuring 1.25 mm., or about 1-20 of an inch. These sieves can be easily constructed out of colander tin, which is generally carried in stock by most tin-men. We have made a sieve out of colander tin soldered on to the bottom of an ordinary spice box, the tin having perforations of about 1 mm. or 1-25 of an inch. Some of the large firms who manufacture perforated metal give the size of the perforations in fractions of an inch, and occasionally millimeters. Perforated metal with 1-18 perforations would be equivalent to 1.4 mm. This size sieve would take quite a large number of the smaller seeds. Such a sieve would probably remove 50 per cent. of the lighter seed, and by this practice one would obtain a very high grade of seedlings.

The sifting of lettuce, in our estimation, is a desirable thing for green-house men to practice, since it economizes space. It is much easier to accomplish the separation by sifting rather than by selecting the pricklers in the beds. It would be a comparatively easy matter to select the proper size of perforated tin for the separation of radishes, etc. The results of this separation would undoubtedly eliminate many inferior radish

plants which usually make their appearance and occupy space which should be utilized by other and better plants.

In separating onion seed, two methods have frequently been employed, one known as the water method, which discards all the seeds that float in water, planting only those that sink. The other method is separation by blowing, previously alluded to.

The following tables give the results obtained from both of these methods:

SEPARATION OF ONION SEED BY AIR PRESSURE.

	Heavy.	Light.
No. of seed obtained.....	71 per cent.	29 per cent.
No. of seed germinated.....	56.5 per cent.	29.5 per cent.
Ave. wt. of seedlings.....	25.1 mg.	18.9 mg.

SEPARATION OF ONION SEED BY WATER.

	Sank.	Floated.
No. of seed obtained.....	76.5 per cent.	23.5 per cent.
No. of seed germinated.....	42.5 per cent.	19.5 per cent.
Ave. wt. of seedlings.....	21.3 mg.	15.5 mg.

George E. Stone

Spring Flowers in England

In some respects English gardens are at their best during the months of April and May when the spring flowers in all their fresh, untarnished beauty give color to the bare brown earth. The gardener is always looking forward and never does he look forward with such eagerness and delight as when the early flowers commence to open. April is the month of daffodils and May the month of tulips and many ornamental flowering shrubs, while the rockery then daily grows in attraction and the gray rocks and stones become masses of color.

DAFFODILS

Few flowers have been so much improved by the hybridist during late years as the narcissus. The bicolor trumpets and yellow-cupped smaller forms of a few years ago are now almost entirely absent from daffodil shows and their place is taken by the lovely white and sulphur colored trumpets, and the flowers of the medio-coronati and parvi-coronati forms with cups or crowns of most brilliant coloring. Some of these cups and crowns are lemon colored, others are orange, orange-red or red, and contrasting as they do with the white perianth usually to be found in the same flower a most striking effect is produced. The development of the cup seems to have been largely the aim of the hybridizer. Some flowers now have broad flat cups or crowns and are quite distinct from anything seen before. The Rev. G. H. Engleheart has probably raised more of the lovely new daffodils than any other worker. Many of the finest forms exhibited today were originated by him:

indeed one section of the narcissus comprising flowers with short flat cups has been named the Engleheartii section.

The daffodil seems to have increased in popularity a great deal during late years: there are now throughout the country several societies devoted exclusively to the daffodil and all seem to be well patronized. Some of the newer varieties are very expensive. The famous white trumpet, Peter Barr, the largest and finest of the white trumpet varieties, was offered a year or two ago for fifty guineas a bulb and even now, after it has been on the market some time, forty guineas a bulb are asked. At the exhibition of the Midland Daffodil Society held at Birmingham last week fifty guineas were given for a new daffodil, a variety of the poeticus section. Any new variety of merit is certain of a good sale for daffodil enthusiasts are rapidly increasing. The fields of some of our largest growers are a lovely sight in daffodil time, when acres of these bulbs are in full flower. It is as fine a sight in a way as the bulb farms in Holland.

AURICULAS

Auriculas, admitted by everyone to be amongst the most beautiful flowers grown, are also regaining some of the popularity they proved to have lost. One large grower of these plants remarked that he had not had so many orders on hand for years as he has at present. The markings and colors of some of the varieties as exhibited at the recent show of the National Auricula and Primula Society were perfect, and elicited admiration from everyone. The auricula is not easy to grow, however, and to be successful with it one must treat it very carefully and not show it the slightest neglect. It is probably on account of the close and careful attention it needs that it is not grown largely except by enthusiasts.

THE ROCK GARDEN

The rock garden is one of the best features of the representative English garden and at this time of year a carefully planted one is full of flowers. White and purple rock cress (*aubrietia*), arabis and iberis are in full blossom; some of the saxifrages are out; the rich blue of the grape hyacinth covers some spot with a carpet of color; the alpine phloxes are in bud and bloom; in fact on all sides there are masses of flowers, and buds which give promise of perhaps still greater luxuriance. Blue bells make a dense undergrowth beneath the shrubs in the background, the sheen of the buds foretelling a season of bounteous blossom.

FLOWERING SHRUBS

These add a rare grace to the pleasure grounds, magnolias being now perhaps the finest of all. *M. stellata* which makes a bush is covered with its white star-like flowers, and *M. conspicua*, *Soulangiana* and others, in the form of large trees, are the delight of all who see them. Peaches and cherries are now at their best and isolated specimens or groups of them are most attractive. Soon we shall have a wealth of lilac blossom (most popular perhaps of all our flowering shrubs), genistas, rhododendrons, azaleas and many more.

Harry H. Thomas

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager.

Decoration Day

Decoration Day, or Memorial Day as many prefer to term it, has taken a strong hold upon the hearts of the people, regardless of condition, and now occupies a position second to no other holiday in the florists' calendar. In some sections, indeed, the business directly due to the special demands of the occasion exceeds that of any other holiday in the year, Christmas and Easter not excepted. The sentiment which finds expression in the peculiar observances and popular customs of this day is such that it assures a perpetual endurance of the holiday in its present form, with a certainty of increasing prominence from the standpoint of the florist and he makes no mistake who gives liberally of time and room to the production of crops especially for this occasion. A lavish abundance, with reasonable prices, will yield ample returns.

To investigate injurious insects

Each year sees the insect problem assuming a more serious aspect for the grower—out-doors or under glass. We can, possibly, render no greater service to the horticulturist than to assist him in combatting these insect enemies and the many plant diseases that impose so heavy a burden upon him. With this in view HORTICULTURE has secured the services of a trained entomologist and pathologist and will be glad to receive from its readers specimens of diseased twigs, plants or fruits or of injurious insects for identification and if the results obtained will in any way help the grower our object will have been attained. Send sufficient quantities and a full description of the trouble. Insects should be sent alive in a tight tin box with food enough to last through the journey. Postage is one cent an ounce on specimens. Mail manuscript separately.

An instance of short-sightedness

The business of the nurseryman dealing in ornamental trees and shrubs, the gardener, and the florist, are so closely interwoven and these three have so much in common that the lack of cohesion seems quite remarkable. The wonderful

increase in demand for hardy planting material now in evidence gives promise of extended prosperity on this and related lines for many years to come. No doubt it is a fact that the unprecedented call in an unusually short spring season has made it impossible for the dealers to assume any additional burdens at this time but it is certainly greatly to be regretted that the proposed out-door exhibition under the auspices of the S. A. F. at Dayton has thus far received so scant attention from those in whose interest it was projected and to whom it holds out advertising opportunities such as have never before been offered in this country. It is not to be expected that the present preponderance of demand over supply can long exist. The many new and extended nursery plantations and heavy importations must have their effect in due time and it would seem that it is not too early to start in now on those business publicity methods from which, sooner or later, there is no escape for the man who proposes to keep in the lead. We are pleased to learn, however, that despite the marked apathy on the part of the nurserymen a splendid out-door display at Dayton is assured, large spaces being already planted with cannas and hardy border plants.

Some peculiar results of the past winter

To the grower and the dealer and to the lover of spring-flowering trees and shrubs generally there comes every spring the absorbing question of the extent and character of the preceding winter's ravages. So erratic and unpredictable are these results as a rule that comparisons of one season with another bring out little of value on which to base conclusions as to cause and effect. The season just passed is no exception in this respect. For instance, just why *Rhododendron dahuricum*, earliest-flowering of all the garden shrubs, which has yielded a gorgeous display in the neighborhood of Boston for several consecutive springs should have every flower bud blasted this season, while the hybrid evergreen rhododendrons which in recent springs have lost a larger part of their flower buds have this season every bud intact, is a problem difficult to solve. Why should wistaria which was a mass of flowers last year be almost completely blighted this year while a few feet away stands a dogwood loaded with blossoms which last year and the year before lost every single flower head? Many other anomalies are in evidence. *Daphne mezereum* has been generally a failure; *forsythias*, on the other hand, are fuller and more gorgeous than ever before. Roses have wintered exceedingly well. Clematises, also, have been killed back only to a trifling extent. *Prunus tomentosa*, usually covered with flowers, is but sparsely furnished this year and *kalmias* and *enonymuses* have suffered considerable damage to their foliage. *Prunus cerasus* bore a normal crop. However, we have much cause for congratulation that the warm mid-winter and the fierce March that followed did not cause much more serious damage than now appears to have been the case.

AFTER ADJOURNMENT.

The new decorative material from the South offered as "gaylussacia," is proving deservedly popular. It is used in the same manner and produces effect similar to the well-known southern smilax, coming in in beautiful condition at this season when southern smilax is not to be had. In some respects it is superior to the smilax. Robinson & Co. are handling it for the Boston market this spring for the first time and are disposing of large quantities of this as well as southern ferns of the present year's crop.

Dahlias are discussed by Messrs. Engelman and Deegan in a recent issue of Moller's Deutsche Gartner-Zeitung, dahlia specialists. Both writers give their opinion as regards future dahlias, and predict a return to the pompon (liliput) dahlia and the old-fashioned varieties; the new large decorative dahlias are also recommended, but the Edel-dahlias (show-dahlias), so-called, are bound to disappear as quickly as the money which was paid for same. "Back to the old varieties, if we want more flowers than bush!"

The city of Lewiston, Me., recently made the generous offer of five cents for each brown-tail moth nest collected in the vicinity and brought in to the city marshal's office. After paying out over \$500, there now is "weeping and wailing and gnashing of teeth" in executive circles, caused by the discovery that most of the nests captured were not those of the brown-tail but the comparatively harmless native fall web worm. Other towns and individuals have been victims of the same mistake not infrequently. Whether the joke is on Lewiston or on her officials who were so simple is not yet settled, but they'll all know better next time.

We took occasion in our issue of last week to refer to the very gratifying revival in the demand for bedding plants, so-called. One of the most convincing instances of enterprise in this direction, in the west, is the establishment of Ludvig Mosbaek at Onarga, Ill., illustrations of which appeared in the issue above mentioned. Mr. Mosbaek is enjoying the legitimate fruits of liberal advertising, supplemented by well-managed shipping methods, calls coming from nearly every state in the Union, we are informed. When florists in New England send west nearly a thousand miles there are reasons. One of these reasons is advertising in HORTICULTURE.

We availed ourselves of the welcome opportunity, a few days ago, to call upon one of the most talented and successful gardeners of our times, J. F. Huss, of Hartford, Conn. We found him affectionately inspecting a lot of pans containing a few hundred thousand, more or less, seedling ferns of rare origin and glorious promise. Unlimited patience and skill were also evident in the new plantations of al-pines. Mr. Huss' collection of these

gems of the rock garden being probably the best in this country. At the present time the hardy primroses are a gorgeous sight. Some of the newer varieties are blue, with yellow eye, and make a striking effect among the more familiar yellows, oranges and reds.

OUT OF THE GINGER JAR.

Uncle John Thorpe's logic on the mechanical watering question is all right except that he does not tell how to mix brains and mechanism. That is the point the whole problem hinges on, and the Natick sage has been clever enough to keep to the point. Nevertheless, the subject is a worthy one. Theory is often knocked out by experience; but there must be a theory first if there is to be any progress.

The seedsmen and other opponents of the free seed graft are taking comfort out of the increased majority against this hoary abuse as shown by the recent vote in Congress. The leaven is working. The opposition have the best of it now as to quality, and it is only a question of time when they will have the quantity of votes on their side also. Let them keep ahammering!

The Hon. South Trimble is the name of the southern congressman who precipitated the uproar in Washington during the recent free seed debate by calling the seedsmen scoundrels and frauds and other choice names. The best we have heard of the Hon. South Trimble is that he has a long grey beard! Is it possible that appendages of that kind are to be taken in inverse ratio to the amount of grey matter behind them? If so we anticipate a rush to the barber shops. There will be no glory in having them "cover the ground for miles around" hereafter.

The "Wilderness of Millionaire seedsmen" referred to by the Hon. Jno. Wesley Gaines has not, up to latest reports, been located. Lieutenant Peary, Rear Admiral Melville and other intrepid explorers will doubtless take up a quest worthy of their prowess in the near future. The location is probably somewhere about the back of Balfuff! We have heard of several millionaires going into the seed business but never of one coming out of it. G. C. W.

REHMANNIA ANGULATA, HEMSL.

This Scrophulariaceæ is now given out by some large firms here and abroad; a native of China, this plant was re-discovered by Wilson in 1903 and introduced by Veitch to the trade again. The plant grows 3 1-2 ft. high, making a small column. On the upper part of the plant numerous nodding flowers are produced; their form is throatlike with an opening 3 inches across, the upper two petals being widely bent backwards; in appearance they are similar to the beautiful *Incarvillea Delavayi*. The color is a very pretty winerose, with yellow striped throat spotted with brown.

Rehmannia is only half hardy, for which reason it will perhaps make a better annual pot plant for winter decoration; or it may be planted in spring time in a sheltered bed; it is very easily propagated by seed and by layers made in September and carried over winter.—*Gartenflora*.

WHOLESOME CHESTNUTS.

Mow the grass on the lawn early and often; it is hard and slow work mowing when the grass is long, and tedious work raking the grass after it is mowed, with the additional annoyance of having to begin mowing over again almost immediately. If every bit of turf has not been rolled, delay the process no longer; rolling helps the grass and the appearance of the lawn wonderfully, besides making mowing a pleasant task comparatively.

If a newly sown lawn shows very many worm casts, run a light roller over it. It will do the grass no harm; it may do it some good, and it will flatten the worm casts. After rain, pound down the grass edges to where you want them, then do the edging. This work can be done much better and with more ease when the grass is moderately damp. Don't throw away the edgings or clippings of sod; instead, collect all of them into a heap, and by and by it will make some good stuff for potting or for some other purpose. This is only one wrinkle in garden economy out of many thousands which a gardener should know.

Dust gooseberry and currant bushes with hebe powder, thoroughly and frequently; gooseberries and currants will not mature if the foliage on the bushes happens to be destroyed.

Keep on sowing radishes every week for successive crops; the same with peas, lettuce, and beans; beets, too, should be sown at different times, in order to have them tender.

Carnations should be planted out now in rows wide enough apart to allow hoeing freely.

By and by there will be four-inch pots in abundance lying around empty; why not think of something to put in them that will later on bring in enough to pay for the pots.

Cannas are very effective when used for backgrounds for dwarfier plants, but they are more pleasing when planted in large masses by themselves, and on exposed places near the sea-shore they are almost indispensable, because nothing else so effective will stand as well.

On large places, little bits of flower beds, here and there, seem altogether out of place; borders are all right where their existence answers some purpose and their contents and outlines harmonize with the surroundings, but small, isolated patches of color often offend the eye.

IN THE WOODS IN MAY.

I hear the wind flower blowing; the crocus too is crowing;

The snowdrop has ceased snowing, and the lily gems the lake;
The crowfoot dances lightly, the starwort twinkles brightly,

And the shepherd's purse is open in the tangle of the brake.

The cranebill needs no paying, for we are only maying,

And with the flowers playing in the glory of the sun;

The spiderwort is spinning, the bishop flowers are shining,

For thus since the beginning have their human namesakes done.

Conc' out, the woods are ringing, with birds and flowers singing.

Each one a message bringing to gladden you and me.

It is a blue flag flying and Daphniphyllum's breeches drying.

Very satisfying to be a student of botany.

—George W. Riley, in Boston Herald.

NEWS OF THE CLUBS AND SOCIETIES.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTI- CULTURISTS.

The Trade Exhibit.

The Trade Exhibit will be one of the main features of the coming annual Convention of the Society of American Florists and Ornamental Horticulturists to be held at Dayton, Ohio, August 21, 22, 23 and 24, 1906.

You have goods to sell that florists use—that they must have—and being progressive, are always looking for something that will help you to increase your profits.

We feel assured that by taking space and making a creditable exhibit, no better medium could be offered you to bring more customers, and the only way through which you can present directly the high character of your goods to florists—live, wide-awake florists—actual buyers, such as always attend these conventions, ready for a good thing.

Dayton is exceptionally well located, being very central, in fact superior to any meeting place heretofore, and offers unexcelled railroad connections to all points; all of which insures a large attendance from all over the United States and Canada.

The exhibition building is specially adapted and arranged for the purpose, and on account of its shape—rotunda—with entrances on four sides makes all locations equally choice, thus giving better opportunities for the satisfactory display of wares.

The cost for space is little considering its intrinsic value. Diagram of exhibition hall, showing the location of each department, application blanks, copies of rules and all other desired information will be furnished promptly on application.

Have space reserved now—it's money for you.

HORACE M. FRANK, Supt.,
112 So. Main St., Dayton, O.

Badge Book.

In accordance with the instructions voted at the convention in Washington last August, the secretary is now preparing a "badge book" containing the names of members, numbered, and will issue correspondingly numbered badges to those whose dues for 1906 are paid previous to June 1st. Members in arrears for current year's dues as well as all persons intending to take our membership this year are earnestly requested to remit now. There is no advantage in waiting until the convention meets, as the fiscal year begins on Jan. 1, and payments made at any date during the year cover the interim until December 31 only.

Advertising.

The size of the badge book will be about 3 1-2 by 6 inches. Advertisements will be inserted at \$5.00 per page; one inch cards, \$1.00 each. Advertising copy must be supplied not later than June 20.

WM. J. STEWART, Secretary.
11 Hamilton Place, Boston, Mass.

NEW YORK FLORISTS' CLUB.

The May meeting of this club, on Monday evening, 13th inst., was attended by about fifty members. Mr. J. A. Pettigrew having been unable to attend and give his expected talk, the evening was devoted to a variety of topics and routine business. E. V. Hallock brought in and presented on behalf of his committee a series of resolutions eloquently expressing the sympathy of the club on the death of August Rhotert. J. H. Pepper, for the board of trustees, presented a report of progress and asking for further time on the question of the proposed national flower show and New York's possible selection as the location thereof. Messrs. Wheeler, Pepper and others participated in the debate. Mr. O'Mara had something to say regarding the free seed matter, and Messrs. Stewart, Wheeler, Butterfield and Schultz talked on the topic of advanced express rates by the U. S. Express Company. A vote was passed instructing the legislative committee to make protest on behalf of the club and take any necessary steps to secure, if possible, the withdrawal of the excessive charges.

The San Francisco disaster was taken up, and a committee appointed to extend sympathy and practical aid if practicable. Messrs. Traendly, Nugent and Sheridan were appointed a committee on Dayton transportation. It was voted that President W. F. Kasting be invited to attend the next meeting of the club, in the interest of the S. A. F. convention at Dayton. On the exhibition table were exhibits of rose Columbia, by Paul Nichol, which received a vote of thanks; *Cattleya gigas superbissima*, from Lager & Hurrell, which was accorded honorable mention, and *Nephrolepis Whitmanii*, which came under special personal care of H. H. Barrows—the old man himself—and which received much interested attention.

MORRIS CO. (N. J.) GARDNERS' AND FLORISTS' SOCIETY.

An unusually large number of the members assembled in their meeting rooms in Madison on May 11th to listen to a paper on hardy shrubs by Arthur Herrington, superintendent of Florham Parks. Like all of Mr. Herrington's efforts, it was of a high order and was well received by the society. As is the custom, considerable time was given to after discussion. Many questions regarding selection of sorts, hardiness of new kinds, etc., etc., were asked by members and cheerfully answered by the speaker. A very striking feature was the large number of Japanese species and hybrids that were to be seen, this being the occasion of the regular monthly show, which was hardy shrubs in flower. The room was literally filled. Mr. Herrington, alone, put up thirty-six species and varieties, which was a remarkable thing for this time of year. Mr. Herrington's address is published in this issue.

E. REAGAN.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

At the monthly meeting on Tuesday evening there was an exceptionally fine exhibition. Awards were made by the judges as follows:

Blue Hill Nurseries; report of merit for *Aruncus astilboides* var. Kneiffel.

George Page; honorable mention for *gladiolus Blushing Bride*, rose *Climbing Kaiserin* and *Iris hispanica*.

R. T. McGorum; honorable mention for candytuft *Giant White Perfection*.

H. L. Cameron; honorable mention for seedling *geranium H. L. Cameron*.

J. T. Butterworth; cultural certificate for specimen *Cattleya Mossiae*. Certificate of superior merit for *Cattleya Mossiae* var. *Reineckiana* with 15 flowers.

H. A. Stevens Co.; vote of thanks for phloxes, stocks and doricums.

Blue Hill Nurseries, vote of thanks for collection of perennials.

Alfred Poetsch; vote of thanks for *Impatiens Holstii* x *sultani*.

NEW LONDON COUNTY HORTI- CULTURAL SOCIETY.

At the meeting held on May 7 the show committee reported that the rose show would be held in Norwich in June, the dahlia and gladioli show in the same place, the summer show in New London, but the place for the chrysanthemum show and the dates for the other shows were not decided. A number of cash prizes had been offered for the chrysanthemum show, but none for the others. The speaker of the evening was J. H. Slocombe of New Haven, whose subject was "Dahlias and Gladioli: Their Varieties and Culture."

NEW BEDFORD HORTICULTURAL SOCIETY.

The monthly meeting of the New Bedford Horticultural Society was held in the rooms of the Y. M. C. A. building on Monday evening, May 14. In the absence of an address, the question box was brought into requisition, and a profitable and interesting evening was spent in discussing the cultivation of dahlias, the laying down, fertilizing and care of lawns. A prominent manufacturer of bone meal, who was present, impressed upon the audience the fact that for horticultural purposes generally "there is nothing like leather." T. WHITE.

CLUB AND SOCIETY NOTES.

The Lenox Horticultural Society, Lenox, Mass., will hold their annual rose and strawberry show on June 26.

C. L. Burr was chosen president of the Springfield Amateur Horticultural Society (Mass.), at their meeting on May 4.

American Paeony Society. The annual meeting and exhibition of this society are scheduled to take place at Boston, June 14th and 15th. A very extensive exhibition is promised.

The Worcester County Horticultural Society (Mass.) held an exhibition on May 10. Pelargoniums exhibited by F. A. Blake and magnolia and Jap-

anese cherry blossoms by O. B. Hadwen attracted marked attention.

At a meeting of the Cincinnati Florists' Society held Saturday, May 12, it was decided not to give the usual annual outing but to save the time, energy and money for the Dayton convention.

At the annual meeting of the Conn. Horticultural Society at Hartford, on May 11, officers were elected as follows:

President—A. C. Sternberg, West Hartford.

Treasurer—W. W. Hunt, Hartford.

Secretary—Alexander Cumming, Hartford.

Statistician and Professor Vegetable Physiology—G. A. Parker, Hartford.

Pomologist—A. C. Sternberg, West Hartford.

Librarian—Alexander Cumming.

County Vice-Presidents—Hartford, R. A. Griffing; New Haven, J. X. Amlryn; Windham, D. A. Lyman; New London, W. B. Colt; Fairfield, Edwin Hoyt; Litchfield, Henry H. Bridgman; Tolland, O. A. Leonard; Middlesex, A. N. Pierson.

THE SPRING FEELING BREAKS OUT IN PHILADELPHIA.

Niessen's base ball team is open for engagements with any similar nine in the trade. Address: John Wilson, 1217 Arch street, captain, pro tem.

The Philadelphia florists cricket team is reorganizing for the season. Wm. C. Smith has been secured as wicket keeper. Other positions are still open. Those who can play some—or even make a stab at it—are requested to send their names to G. C. Watson, 1614 Ludlow street.

The Florists' Gun Club of Philadelphia has again won the league championship of Philadelphia and vicinity—this time against strong opposition. Meadow Springs club had a good chance up to last Saturday's match. The score then was 204 to 206, in favor of the Florists. There were ten clubs in the League, and each shot two matches with every other team, home and home.

GEORGE C. WATSON.

BOSTON'S GREAT PARK SYSTEM.

Boston's park system contains 15,175 acres. They are connected by nearly 26 miles of boulevard and there are over 110 miles of park roadway. They have cost to date \$33,275,050 and require an annual expenditure of \$521,465. There are only two cities in the world whose park systems even remotely approach that of Boston in size or diversity; these are London and Paris. When the Charles river dam is completed Boston will have a great fresh water basin of unsurpassed beauty.

SARRACENIA HYBRIDS.

S. Cookeana x S. Courtii Veitch gave two new crossings, one resembling S. Cookeana and the other S. Courtii Veitch. In both cases just the opposite plants were used as male and female parents with the result that both hybrids show a much closer resemblance to the male parent plant. The hybrids are both superior to the parents in shape as well as in coloring. —III. Gartenzeitung.

THE SENIOR CLASS AT AMHERST AGRICULTURAL COLLEGE.



We present herewith, through the courtesy of Prof. Waugh, a group photograph of the class in horticulture which will be graduated at Amherst this year. The picture includes only

those students who elect fruit growing, floriculture or landscape gardening in their senior year. The majority of these promising young men expect to go directly into some line of practical horticultural work.

NEWS NOTES.

Frank Miller & Son are to open a florist store in Waterbury, Conn.

The explosion of a powder magazine nine miles away destroyed the glass in a conservatory owned by D. S. Whitcomb at Milford, Conn.

Hermann Thiemann has disposed of his business in Owosso, Michigan, and will return to the Old Bay State, locating in Belchertown.

W. R. Boody & Co. have removed from Northboro, N. H., to York, Maine, where they will do a florist and landscape gardening business.

The greenhouses on the Coolidge farm, East Sudbury, Mass., have been leased by Christopher Johnston, who has had charge of them for several years.

Paul Kaese, of Wm. Hagemann & Co., 55 Dey street, New York, sailed on the Kaiser Wilhelm der Grosse, May 15th, on a short business trip to Europe.

Mayor Fitzgerald has appointed Daniel H. Coakley to succeed Laban Pratt as park commissioner for the city of Boston. The term is for three years and there is no salary.

A movement to organize the florists of the South, which originated with the New Orleans Horticultural Society, will probably take definite shape on May 22d, when a meeting will be held at Chattanooga, Tenn.

The tulips in the Boston Public Garden have made a gorgeous spectacle during the past week. Over 400,000 are planted each year and they are always the most effective of the suc-

cessive floral displays in this renowned spot.

Among the remarkable escapes in the California disaster is that of Luther Burbank whose home and experimental garden at Santa Rosa were undisturbed. His valuable collection of photographic negatives was unbroken, although the other half of the gallery in which they were stored was completely ruined.

A spraying demonstration, similar to the one held two years ago, but on a considerably larger scale, was given by the department of horticulture of the Massachusetts Agricultural College at Amherst, on May 17. While primarily intended for the students it was deemed of sufficient general interest to invite the public, and the operations were followed with close attention by a large number of spectators.

PUBLICATIONS RECEIVED.

Sander's List of Orchid Hybrids. This book will be found indispensable to the orchid enthusiast and grower. It records the names and parentages of all the known orchid hybrids, whether introduced or artificially raised. The contents are arranged in three tables, table I giving the name of the hybrid, alphabetically placed, followed by the name of the parents; table II giving, first, the seed parent, in alphabetical order, followed by the name of the pollen parent and the product, and table III reversing same. The book represents an infinite amount of patient investigation and toil, and its compilation would be an impossibility outside of a place like Mr. Sander's establishment. Orchid growers are under great obligation to Mr. Sander for this concise and practical work. It contains 125 pages, with blank interleaves.

SAN FRANCISCO NOTES.

As far as California trade is concerned, generally speaking, the outlook is bright. The crops are very promising, assuring us of excellent harvest returns, and they are not far off now. In a few weeks we shall be selling our crops of 1906 and receiving fine returns for them. We have as much Pacific ocean to the West, North and South and as many railroads to the East of us as before the earthquake-fire. Our ships and cars are still with us. We have the crops to put into them, and as soon as we can get some of the litter and rubbish cleared away from our doors, so that we may go in and out our business as a city and State will proceed as if nothing had happened.

I had a talk this week with John H. Sievers, the Hannah Hobart grower, and passed on with his invitation to call again next week, the impression being that he would then have some trade news to give out. This reference reminds me to say that this gentleman and his partner, under the trade name, Sievers & Boland, lost by the earthquake-fire the largest and most beautiful flower store in the city; also, to state that the important asset of San Francisco at present is the insurance money due on fire policies, none of which is yet paid. On receipt of this money the preliminary work of rebuilding the city, even now commenced, very largely depends. The situation in this respect was explained this week by one of the fire companies to a prominent seedsman, nursery owner and policyholder, as follows:

"We have 4,000 risks in San Francisco. Under the most favorable conditions we do not expect to be able to adjust more than twenty per day, which will require 200 days for the readjustment. When you will get your claim adjusted depends upon the time the adjusters reach your case. You may be one of the first and you may be one of the last. You know as much about it as we do."

I was pleased with the sight yester-

day, May 10, of a very considerable gathering of growers from all the adjoining bay counties, and San Francisco florists, although the occasion was peculiarly sad. It was in attendance at the burial ceremonies over the earthquake-fire remains of M. Frank, formerly a violet grower and chief member of a prominent downtown flower store trading in the name of Frank-Parodi Company. The earthquake caught him in his sleeping-room, two floors above his flower store and hurled him, with tons of brick, into the basement below, and only two days ago the charred remains of the body were found. Many beautiful floral tributes of respect were contributed by florists and growers.

OBITUARY.

Charles P. Grimmer, for many years a well-known florist of Boston, died at Chatham, Mass., on May 10, aged 63 years. Mr. Grimmer came to this country when a young man and after spending some time with florists in the West located in Boston, where, in 1873, he started in business, on West



street, and rapidly built up a large and profitable business and by his energetic methods, integrity and attractive personality maintained a position among the leading florists of Boston until about two years ago, when his health broke down, since which time he has been unable to attend to any business. He leaves a widow and five children.

Anthony Cook, noted as a florist and horticulturist died at his home in Baltimore, Md., on Sunday, May 13, at the ripe age of ninety years. Mr. Cook conducted a florist business on Mulberry street for 48 years. He was the raiser and introducer of a number of valuable plants, including the Cornelia Cook rose and some fine double geraniums. He was born in Derkheim, Germany, and came to Baltimore 65 years ago.

Hans Bartels of Milwaukee, Wis., died on April 30, at the age of 48. He leaves a widow and one daughter. He was a member of the S. A. F. for several years, but resigned in January last.

William A. Coffin of Newburyport, Mass., died on May 9, aged 80.

PHILADELPHIA NOTES.

Louis Burk, the well known orchid amateur, has just completed a splendid specimen of the Japanese garden at his residence, Fisher's Lane and Wyoming avenue. In extent and completeness it surpasses even the fine example of this style of gardening at the estate of Jno. T. Morris, Chestnut Hill.

J. J. Habermehls' Sons had the contract for filling the window boxes for Strawbridge & Clothier this season. There were over one hundred boxes, each over six feet in length. The effect on the frontage of the big building is very beautiful and a grand object lesson for the passing throng.

The new tennis court at Lindenwold, the residence of Jno. Wanamaker, is now completed and is unique and worth going to see. Jno. Dodds is now warm in his new position and takes pleasure in showing visitors around.

On May 11th a petition in involuntary bankruptcy was presented against Chas. P. Poryzees, 15th street below Chestnut, by the Leo Niessen Co., Robt. Craig Co. and the Philadelphia Wholesale Flower Market. It was thought some time ago that Mr. Poryzees had been able to make arrangements to carry on, but the safe-guarding of all interests made the above action necessary.

Nellie Thoires, daughter of James M. Thoires, the Camden florist, met with a serious accident recently in a wagon collision. Arm and collar bone broken. The accident was due to the recklessness of the driver of a brewery wagon, who drove off at top speed and escaped in the darkness. Much sympathy is expressed for the sufferer and her family.

Geo. Rhedemeyer, the well-known president of the beautiful Harleigh Cemetery, has been engaged the past six months in laying out Forest Hills Park, Camden's new pleasure grounds.

Harry Bayersdorfer and Mrs. Bayersdorfer reached the other side safely on the 10th inst., all well.

We regret having to report a non-suit in the case of Wm. J. Baker against the Adams Express Co. From what we learn the decision was based on a technicality and appears to have been a practical miscarriage of justice. Mr. Baker could doubtless win out on an appeal, but apparently thinks the game not worth the candle.

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Tomatoes, 8 var. fine Plants 2.00 " "
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Flowering Trees and Shrubs.

(Read before the Morris Co. Gardeners' and Florists' Society by A. Herrington.)

"The floral story of the year as we read it in successive chapters contributed by the flowering trees and shrubs is one of rich and fascinating beauty. Age cannot wither nor custom stale this infinite variety of beautiful life which contributes so much to the joy of living especially just at this time when vegetation awakes from its long winter sleep and bursts into glowing masses of brilliant bloom.

"Almost every country has its characteristic features of vegetation but the floral feature that most impresses me in American gardens is the lavish profuseness with which our flowering trees and shrubs enwreath themselves in blossom every year. You must have remarked and noticed it and appreciated the enhanced beauty of many things that we have known all our lives, but only in later years under American associations.

"Let me cite but one instance, that of the glowing yellow Forsythia suspensa. It has been a familiar shrub to me since boyhood days and there comes back to me recollections of benumbed fingers training and tying the shoots to garden walls on cold winter days and then the subsequent flowering but what was the result and what the display in comparison with that of the same shrub grown here without special care. As I write these notes I look out of the window and two miles away I can easily distinguish a mass of forsythia flower upon a hillside, and what is there to compare with it, and at so early a date when even green leaves exist only in tender budding embryos. For equal effect in color I can only recall one thing, a mass of yellow broom, or of furze, as they grow on dry slopes in England, but these are not hardy there. What the forsythia so fittingly exemplifies is further and frequently expressed by other shrubs that succeed it in times of blooming.

"The importance of these things should not be lost to us because they are common, cheap, easily-grown, hardy shrubs. This precious heritage of bloom with which we are so richly endowed should be an incentive to effort to give its fullest expression in every possible way for I am assured given area and scope we may with hardy flowering trees and shrubs alone make gardens and parks of surprising beauty equalled by few and excelled by none in any country.

"Why should we spend time and money in endeavoring to reproduce at the best, weak imitations of so-called Italian gardens, under conditions and environments to which they are not fitted? These ancient and over-praised formal gardens belong to a past age and generation, where art supplanted nature, because the rich store-house of nature was unknown to the men of those times. Travel and research have brought to us from all parts of the globe, and latter day hybridization has further amplified a wealth of material that does not harmonize with garden formalism, but does permit the creation of a succession of pictures changing with the days and weeks for a long continued period. Let the garden un-

fold the story of the year and be a living floral calendar so that if perchance we could be unmindful of or forget the actual period we may read it in the floral pictures as they appear.

"We will now pass in brief review the hosts of flowering trees and shrubs that our gardens should possess, at least in such part as they are adapted therefor.

"One of the earliest harbingers of spring among the shrubs is the little *Lonicera fragrantissima*, its flowers individually small and insignificant, so much so that generally the first intimation we have of its flowering is when we catch a whiff of its fragrant breath upon the air. It makes a large bush and early flowering and delicate fragrance are its particular attributes. The forsythias come next, and no words of praise can ever exaggerate the beauty of those. Individually or in a mass in any soil, aspect and situation they give us beauty of the highest type. The oldest and best known species is *Fortunei* and although the catalogues make mention of *F. intermedia* and *F. suspensa*, the difference in these is but slight. *Forsythia viridissima* however, has more marked distinction in habit of growth, size of leaf, color of bark and also is about a week later in time of flowering. Simultaneously with the foregoing, magnolias burst suddenly into bloom, and what an array of beauty they can give us. The entire family in scope and importance justifies an essay on it alone. First comes the graceful *M. stellata*, also known as *Halleana*, and how free it always blooms from an infant bush, three feet or less in height upwards, bearing myriads of fragile snow white flowers often sadly buffeted by cold spring storms yet we could ill dispense with its short lived display. Another magnolia that resembles it in some degree, but is rather shy blooming, yet withal one to have in any collection is *M. Kobus* or *Thurberi*. Next comes *M. conspicua* throwing its great white cups open to the spring sun, and a few days after it the gem of the whole family *M. Soulangeana*. This is of hybrid origin, the *conspicua* one of its parents and *obovata* the other; it shows characteristics of both plants, flowers abundantly when young and in a shrubby state, and still more abundantly when it ultimately reaches the dimensions of a good sized tree. To him who is so unfortunate that he can only have one magnolia this is the one he should plant. *M. speciosa* is another hybrid with some strong resemblance to the preceding kind, differing chiefly in its free branched symmetry of growth, having flowers not quite so large, and it flowers a few days later whilst stray flowers prolong its blooming till foliage is well developed. *M. Lennei* is a striking beauty and unlike all the others its great cup shaped flowers a rich claret-color externally the flowers heavy and lasting and their period of duration and production considerably prolonged.

"Then in the later weeks come other great magnolias that attain to tree

form, but time does not permit of enlarging upon these. The "*Snowy Mespilus*," *Amelanchier Botryapium*, is another gem of early spring days that enwreaths itself in garlands of fleecy white bloom. The season advances and the Judas Tree next commands attention by the strong tone of color it adds to the ever changing scene. *Cercis canadensis* we call it by name but how shall we fittingly express in words its exceeding beauty and lavish profusion, twigs thick branches, aye, and often the main trunk itself covered with clusters of purple bloom. *Cercis japonica*, a Japanese relative is also distinct and showy, having larger flowers, but in our latitude in winter kills at times, therefore is rarely seen to advantage.

"Next in the procession come the spiræas, and first of this great family, of which there are at least two dozen species, is the double flowered plum-leaved *Spiræa prunifolia*. It ranks as one of our very best flowering shrubs so profuse and lasting is its bloom. *S. Thunbergi* blooms at the same time, has tiny flowers but in such myriads that a mass of it viewed from a distance suggests a snowbank that has not yet disappeared in spite of the spring sun. *S. Reevesi* in single and double is a good species, whilst a little later in its own time of blooming. *S. Van Houttei* is easily the most graceful and most attractive flowering shrub of its time. Others follow in succession through the months of June and July.

"Another great family that by close relationship, suggests itself for bold in associated planting contains the almond, peach, plum, cherry, apple and the Japanese quince. Think of the possibilities of these alone for making a garden picture of incomparable beauty. Space prohibits enlarging upon at least a hundred varieties included in this great group. Unfortunately in latter days we are to be denied much of their beauty unless by persistent spraying we shall eventually get the upper hand to the extent of entirely exterminating the devastating San Jose scale. Bear this fact in mind in your planting, all these ornamental types of that great natural order that gives us our orchard fruits are just as susceptible to attack and quick extermination by the aforementioned pest.

"Fortunately most of the other families of blooming shrubs are immune, otherwise the outlook for tree and shrub life in parks and gardens would be a dreary one. As May declines and June arrives, new hosts come trooping on the scene. Think of the dogwood and try to express the joy and admiration it excites in you. Then there is lilac time, always a well remembered period of the year, even in the old days when we had only the few natural species. Now, thanks to the hybridizers' skill, we have varieties galore of a quality undreamed of not so many years ago, in single and double flowers larger individually, gigantic in the cluster and the range of color a phenomenal one from white through tender pinks



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<i>Sieboldi</i> and other large flowering varieties, 2-yr., pot-grown	\$2.50	\$25.00	" <i>Chinensis</i>	1.50	12.00
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HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

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(*Buxus suffruticosa*)

Bushy Transplanted Plants

6-8 inches.

Per 100 \$6.00 Per 1000 \$50.00

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Crown	Stem	Tall	Tub	Price
23-25	45-48	6 ft. 10 in.	13	\$12.00 per pair
20-22	45	6 ft.	12	7.50 " "
28-30	48	7 1.2 ft.	15	15.00 " "
32-34	48	7 ft. 10 in.	17	18.00 " "
34-36	48	7 ft. 10 in.	17	20.00 " "
38-40	48	8 ft.	18	22.50 " "
48	45	8 ft.	21	35.00 " "
42-45	45	8 ft.	22	25.00 " "
28	30	5 ft.	14	15.00 " "
36	40	6 ft.	17	20.00 " "

Pyramids

5 ft. tall	14 at base	11 in. tub	\$8 per pair
6 ft. 10 in. tall	26-28 " "	13 " "	15 " "
6 ft. 10 in. " "	42 " "	18 " "	20 " "
8 ft. 6 in. " "	34 " "	17 " "	25 " "
7 ft. 6 in. " "	48 " "	20 " "	35 " "
9 ft. " "	48 " "	21 " "	65 " "
Columns 9 ft.	28 " "	17 " "	40 " "

Pyramid Standards

10 ft. tall	38-40 in. at base	21 in. tubs	\$45 per pair
10 ft. " "	36 " " "	21 " " "	35 " "

BOXWOOD

Bush Form

12-15 in.	6-7 in. through, per 100	\$25.00
18-20 in.	12 in. " " "	75.00
20-22 in.	10 in. " " "	50.00
30 in.	20 in. " " "	300.00

Pyramids

30 in. high	11-12 in. through, per 100	\$100.00
36 " "	12 " " "	150.00
42 " "	15 " " "	200.00
48 " "	18 " " "	250.00
48 " "	20 " " "	300.00
48 " "	24 " " "	500.00

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Rutherford, N. J.

and exquisite blues to deep dark purplish red.

"In graceful delicate contrast to great masses of lilac we have the "Snowdrop Tree," *Halesia tetraptera* and *H. diptera* with myriads of white bells depending from their far-flung branches. *Philadelphus* and *deutzia* are two more important families, and if we want relief from so much of snowy whiteness as seen in these, we turn to the *weigelas* in variety of hue from pink to crimson. The *viburnums*, too, impress their importance on us, and the wild roses we must have in their season, such species as *rugosa*, *lucida*, *setigera*, *multiflora* and *Wichuraiana*.

"The mention of *rhododendrons*, *kalmias* and *azaleas* conjure up visions of greatest beauty, providing we have the conditions that suit them. Failing such, it is far better to ignore them for adaptability of material to existing conditions is always the best course to pursue. Enough has been said to prove the amazing variety of flowering trees and shrubs.

"A few words in conclusion may be said as to care and attention. In all gardening practice there is nothing that gives so large a return at a minimum of cost at all comparable with flowering shrubs. They can all be easily and cheaply produced and planted with assurance of future satisfaction. The autumn months are the best for planting with few exceptions, one of the most noteworthy being the *magnolias*, which owing to peculiar conditions of roots, should always be planted in spring. The only actual important factor in subsequent treat-

ment is the judicious use of the pruning knife, and judging from what one daily sees in many places this matter is not properly understood. Indiscriminate winter pruning often results in cutting away one-half or more of the flowering wood. Some pruning is necessary for many of the subjects enumerated, but no hard and fast rule can be laid down. Generally speaking, however, there should be less winter and more summer pruning. No shrubs that flower in spring upon the wood of the previous season's growth, and these are the majority, should be winter pruned. The opposite is equally true. Any shrubs that flower upon the current season's growth may be winter pruned. As for example, the *althæas* or tree mallows and the *hydrangeas*.

"The bulk of the flowering shrubs, however, should be pruned immediately after flowering. Such pruning to be the proper thinning and cutting away of the shoots that have flowered. This practice encourages a strong new growth, ensures good flowering wood for another year, and preserves that all essential individuality of form and varied habit of growth that marks the different species and aids effective disposition of them in any general planting scheme.

Jolly times coming soon the big woods know -
Skies flaunting blue again, the winds sing low;
Birds flying back with another year's song;
Summer time, flower time, coming right along.

—Boston Transcript

BOUVARDIAS.

A reader asks regarding the culture of *bouvardias* for winter and spring blooming. *Bouvardias* in several kinds, such as the old scarlet *leiantha*, *Vreelandi* or *Davidsoni* white, *Alfred Neuner* double white and *President Garfield* double pink were grown quite extensively for the cut flower market a few years ago, but are seen only infrequently of late, the difficulty in controlling the crop and of getting continuous bloom being one of the causes of its abandonment probably. The regular crop came in at Christmas and then again in May, and there was no intermediate crop to speak of. One species, *Humboldtii*, is, however, a free and constant bloomer, and its long-tubed, pure white jasmine-scented flowers may be cut every day in the year. It is an exceedingly pretty and appropriate flower for choice use, such as bridal work, but is easily bruised and is not well calculated to withstand the rough handling of the wholesale markets. It likes a warm, airy place and can be grown nicely in boxes set along the side of the walk in the rose house. It roots readily from cuttings in spring, or can be increased by root division. Cuttings will begin to flower when in thumb pots. These flowers should be pinched out and the plants set out in the field, as is done with carnations. They should, however, be potted or boxed and taken in early in the fall, as they are very tender.

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and all of the leading varieties. One hundred and thirty-six thousand rose plants grafted this year. Read our list:

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Rosalind Orr English. \$20.00 per 100; \$150.00 per 1,000.

Etoile De France. \$20.00 per 100.

Wellesley. \$20.00 per 100; \$150.00 per 1,000.

Liberty. \$20.00 per 100, regardless of number ordered.

The above varieties on their own roots, from 2½ inch pots, very fine plants, re-potted from 2 inch pots.

Killarney. \$10.00 per 100; \$90.00 per 1,000.

Richmond. \$15.00 per 100; \$120.00 per 1,000.

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Rosalind Orr English. \$10.00 per 100; \$90.00 per 1,000.

Naman Cochet. A magnificent pink rose of Mermet type, and the best of our out door bedders, \$15.00 per 100.

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Caroline Testout. Meteor. La Detroit. Golden Gate. Mrs.

Pierpont Morgan. Madame Abel Chatenay. Grafted from 2½ inch

pots, \$15.00 per 100; \$120.00 per 1,000. for A No. 1 stock; nothing else

will be sent out. The above varieties on their own roots, from 2½ inch

pots, \$5.00 per 100; \$45.00 per 1,000.

American Beauty. On own roots, from 2½ inch pots, \$8.00 per 100; \$75.00

per 1,000. 3 inch pots, \$12.00 per 100. \$100.00 per 1,000. April, May and

June deliveries.

Mme. Norbert Levavasseur (The Baby Rambler). An ever-blooming

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sational rose from 2½ inch pots, at \$2.75 per dozen. \$17.50 per 100;

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Arrived in Splendid Condition

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Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

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Strong young plants, 2 1-4 in. pots, for growing on, \$12.00 per 100.

Extra strong plants, 3 1-4 in. pots, \$25.00 per 100.

Large plants, 6 in. pots, \$9.00 and \$12.00 per dozen—according to size.

Fine large specimens in 8-in. pans, \$2.00 and \$3.00 each.

This is one of the most salable plants, and stock offered above will please you.

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BAY TREES

We offer splendid specimens from the best growers in Belgium, guaranteed to be in first-class condition, at the following prices to the trade only.

Ht. of Stem	Diam. of Ball	Per Pair
4 ft.	30 in.	\$12.00
4 ft.	3 ft.	18.00
26 in.	24 in.	6.00
4 ft.	6 ft.	125.00
4 ft.	5 ft.	85.00
4 ft.	4 ft.	40.00

30 Pyramid Bay Trees, 8 to 9 ft. high, 3 ft. in diameter, price per pair, \$28.00

2 Specimen Pyramid Bay Trees, diameter of base, 7 ft., diameter of top, 3 ft., price for the pair, \$200.00.

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An immense supply of lilies, carnations, roses, lilacs, stocks, spiræa, etc., specially growing for this purpose. Also, baskets, wire frames, inscriptions, immortelles, wild ferns and other green material.

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Special Price for May
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DAGGER FERNS, 1.50 per 1000
Discount on Large Orders

NEW CROP FANCY FERNS, 1.50 per 1000
They are the Finest and Largest Ferns ever sold.

Bouquet Green, \$7.00 per 100 lbs. Bouquet Green Wreaths and Laurel Wreaths, all sizes and prices.

Laurel Festooning, extra fine and full, 4c, 5c and 6c per yard, and made fresh daily from the woods. Send for sample of our Laurel Wreaths for Memorial Day use, \$2.00 per doz.

Bronze and Green Galax, 75c per 1000. Discount on large orders.

Send Us Your Orders for Memorial Day Now
and you will get the best to be had and at rock-bottom prices.

Satisfaction guaranteed. No matter how large or small the order it will be filled promptly and with the best and freshest stock right from the woods.

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A very fragrant, white flower with dark green foliage, suitable for all decorations. We guarantee time and condition of arrivals. 75 cts. per 100, \$6.00 per 1000.

SEASON, MAY 15 to JUNE 15

ASA WRIGHT, - - - ALVIN, TEXAS

BUSINESS CHANGES.

Mrs. Ella Ramsdell has purchased the business of C. H. Additon, Waterville, Me.

Horace E. Smith of Springfield, Mass., has removed from N. Main to Prospect and Massasoit streets.

Archie Henshaw, who has been with A. L. Young & Co., wholesale florists, will open for himself at 52 West 28th street, New York.

The Gurney Heater Manufacturing Company have removed from 74 to 188-200 Franklin street, Boston, where they have fitted up a fine suite of offices and show rooms.

Jones, McDuffee & Stratton have moved to their new building on Franklin street, Boston. Their new stock comprises a large assortment of fine jardinières and flower vases.

The place recently occupied by Robert Maenner at Bayside, N. Y., has been taken by Fred. Smith, formerly located at the Hyatt place, Winfield, which is now being cut up into building lots. Mr. Maenner has taken a position at Lockport, N. Y.

Bate Bros., of Cleveland, O., will gradually remove their plant from East Cleveland to the property they have recently purchased on the Eddy road. They contemplate the erection of several new houses with the latest appliances and equipments. Increasing business necessitated the change.

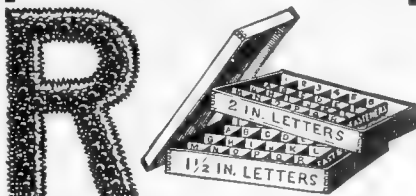
CATALOGUES RECEIVED.

Special list of Cactus Dahlias. Geo. H. Walker, North Dighton, Mass.

W. W. Edgar Co., Waverly, Mass. Bedding plants for season of 1906.

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Block Letters, 1½ or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

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New crop now ready in limited quantities.
EVERGREEN, ALA.

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	CHICAGO May 15		ST. LOUIS May 15		PHILA. May 16		BOSTON May 17	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	20.00	to 25.00	2.00	to 25.00	15.00	to 20.00	12.00	to 20.00
" Extra.....	15.00	to 20.00	1.00	to 20.00	10.00	to 12.00	8.00	to 10.00
" No. 1.....	8.00	to 10.00	1.00	to 15.00	6.00	to 8.00	4.00	to 6.00
" Lower grades.....	2.00	to 6.00	4.00	to 8.00	1.00	to 5.00	1.00	to 3.00
Bride & 'Maid—Fan. & Sp.	6.00	to 8.00	6.00	to 8.00	6.00	to 8.00	5.00	to 6.00
" Extra.....	3.00	to 5.00	4.00	to 5.00	4.00	to 6.00	3.00	to 4.00
" No. 1 and Lower gr.	2.00	to 3.00	1.00	to 3.00	1.00	to 3.00	.50	to 2.00
Liberty, Fancy.....	10.00	to 12.00	.....	to 12.00	12.00	to 15.00	6.00	to 8.00
" Ordinary.....	2.00	to 8.00	.....	to 2.00	2.00	to 8.00	.50	to 4.00
Richmond, Fancy.....	10.00	to 12.00	10.00	to 12.50	12.00	to 15.00	8.00	to 10.00
" Ordinary.....	2.00	to 8.00	4.00	to 8.00	2.00	to 8.00	1.00	to 6.00
Golden Gate, Fancy.....	4.00	to 6.00	4.00	to 8.00	6.00	to 8.00	3.00	to 5.00
" Ordinary.....	1.00	to 3.00	1.00	to 3.00	1.00	to 5.00	.50	to 2.00
Chatenay, Fancy.....	4.00	to 6.00	6.00	to 8.00	6.00	to 8.00	3.00	to 5.00
" Ordinary.....	1.00	to 3.00	1.00	to 3.00	1.00	to 5.00	.50	to 2.00
CARNATIONS								
Fancy.....	2.00	to 3.00	1.50	to 2.00	2.00	to 3.00	1.00	to 2.00
Ordinary.....	.50	to 1.50	.75	to 1.00	1.00	to 2.00	.50	to .75
MISCELLANEOUS								
Cattleyas.....	.....	to 50.00	.....	to 50.00	.....	to 50.00	40.00	to 60.00
Lilies.....	6.00	to 8.00	6.00	to 8.00	6.00	to 10.00	5.00	to 8.00
Callas.....	6.00	to 8.00	6.00	to 8.00	6.00	to 10.00	5.00	to 8.00
Lily of the Valley.....	3.00	to 4.00	2.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Peonies.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Sweet Peas.....	.50	to 1.00	.25	to .50	.50	to 1.00	.15	to .50
Mignonette.....	.....	to 1.00	1.00	to 3.00	1.00	to 2.00	.....	to 1.00
Adiantum Cuneatum.....	.75	to 1.00	.....	to 1.00	1.00	to 1.00	.75	to 1.00
" Crowcanum.....	.....	to 1.00	.....	to 1.00	1.00	to 1.50	.....	to 1.50
Smilax.....	10.00	to 15.00	12.00	to 15.00	15.00	to 20.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	25.00	to 50.00	50.00	to 50.00	.....	to 50.00
" " & Sprenger bunches	35.00	to 50.00	25.00	to 50.00	50.00	to 50.00	20.00	to 35.00
Lilacs per 100 bunches.....	to 8.00	to 8.00	8.00	to 25.00	to 25.00

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CUT FLOWER MARKET REPORTS

BOSTON The present week finds business pretty quiet all along the line in the cut flower trade. There is an abundance of everything and prices are sagging, generally. Decoration Day, which is always an event of great importance in this market, is the topic of the hour and extensive preparations are under way on all sides for an unprecedented business. Many special crops, such as astilbe stocks, lilies, etc., are being pushed along for this occasion. The "supply men" are also very busy on heavy orders from all over the New England States.

BUFFALO A slight improvement in the market was had the past week, but only on the carnation line. Colored carnations, especially Lawson and red, were a little scarce, and prices advanced a trifle on that line. Easter lilies and callas came in quite as plentiful as previous weeks and, floral work being a little slow, they seemed to glut at times. Roses came in in enormous supply. Select stock seemed to move quite freely, but the shorts moved slowly and at very low prices. A few openings amongst the down-town people helped to clean the market, but the next day's supply seemed to fill up as fast as could be worked down. Out-door stock is beginning to come in, and some good tulips and narcissus are seen, but not moving as fast as desired. Excellent sweet peas can be seen daily, and prices are good for fancy stock. Other flowers together with greens in good supply and demand normal.

CINCINNATI The cut flower business has been rather quiet for the past couple of weeks. Out-door stock is slacking up but there still remains enough to hurt the sale of indoor flowers. Roses are getting small and in some cases badly mildewed so that really first-class stock is scarce. Carnations are fairly good but they too are showing the effects of the warm weather. Sweet peas and Harrisii lilies are in good shape but have to be sacrificed in many instances in order to move the stock. Out-door lily of the valley is done for but the market is

well supplied with a good grade of indoor stock. The outlook is for better conditions this week. It is thought that for June weddings and school commencements stock will be exceedingly scarce in this market.

COLUMBUS The past week has been one of cold weather; as low temperature as 24 degrees above having been recorded in this vicinity. Only one result could follow, and that was a sudden end to the great run of trade we were having in every line. Hundreds of thousands of tomato plants have been lost, as well as the peach, strawberry and blackberry crops very badly injured indeed. We have had the worst freeze in years—and what made it so bad was that it lasted four days without the least let-up. Trade will no doubt be quite good the rest of the month, and half way, say into June, but the grand business everyone was doing before this cold snap came, will be seen no more this year. Funeral flower work had been very good all the week, but apart from that, sales have been few and small. The seedsmen as a whole are well satisfied with the business done; perhaps the total number of orders will not exceed previous years, but that they have averaged larger all are agreed.

DETROIT At no time during the past week were the wholesalers troubled with an over supply. Roses were a little numerous at times but the demand has kept them going. Carnations have been meeting the demand at a very close margin and at times when business was on the rush the wild goose chase was indulged in. Sweet peas keep up their sale at a lively pace. Some lilac and snapdragon are being sold but with little regularity. Lilies are very fine. Trade in general has improved.

LOUISVILLE Trade the past week was fair with an inclination in favor of plants rather than cut flowers. The demand for carnations and roses continues good, and the quality is all that could be desired. Sweet peas and lily of the valley are abundant, the latter finding a particularly ready sale. Lilies are still quite plentiful. There is a good supply of other stock, but the demand is none too brisk.

NEW YORK A very moderate trade has been experienced here during the past two weeks and values have dropped on all lines except carnations which have been in very light supply and have brought excellent prices when obtainable. Roses of all varieties are very abundant. There are enough of good quality to fill all demands but there is a big proportion of poor grade stock, much of it badly mildewed, for which the returns must be exceedingly low. Sweet peas are showing up in large quantities; they are very handsome as a rule. Cattleya gigas are coming in in rich abundance. Lily of the valley from frames and out doors is abundant and most excellent. Dogwood branches, lilacs and other out-door material are used in large quantities for window adornment and large decorative work generally and the sale of the standard stock of the wholesale florist suffers accordingly.

PHILADELPHIA Except for the little spurt on Friday and Saturday, caused by the children's May processions, business last week would have been rather slow. As it was, the average was fair. The affairs mentioned cleaned up the market on the lower grades, and toned things up for the better qualities. Roses and carnations were both very plentiful, with prices uneven and spasmodic. Kaiserin roses are showing some improvement. Chatenay and Killarney are still plentiful, and in very good shape. Enchantress, Patten, Lawson and Fenn are the leaders in carnations. Lily of the valley is going better, and is of fine quality. Sweet peas are of finer quality than ever but rather over-plentiful, and prices are low. Gardenias, quality fair and demand poor. The most refreshing event of the week's market was the advent of the peony. Festiva Maxima, Reevesi, Victoria Tricolor, L'Esperance and officinalis rubra were the varieties most in evidence. Prices are running about from \$4.00 for red, \$8.00 for pink, to \$12.00 for white, dark blue and light lavender. This added a touch of variety also to the week's market. Lilac is still plentiful.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending May 12 1906	First Half of Week beginning May 14 1906		Last Half of Week ending May 12 1906	First Half of Week beginning May 14 1906
Roses					
Am. Beauty and Edgeley fan and sp. extra.....	10.00 to 15.00	10.00 to 20.00	Carnations, Fancy.....	2.00 to 4.00	2.00 to 4.00
" " No. 1.....	6.00 to 8.00	6.00 to 8.00	Carnations, Ordinary.....	1.00 to 2.00	1.00 to 2.00
" " Lower grades.....	3.00 to 5.00	3.00 to 5.00	Cattleyas.....	50.00 to 60.00	35.00 to 60.00
Bride & 'Maid, fan and sp. extra.....	1.00 to 2.00	.50 to 2.00	Lilies.....	4.00 to 6.00	4.00 to 6.00
" " No. 1 and lower grades.....	4.00 to 6.00	4.00 to 6.00	Callas.....	4.00 to 6.00	4.00 to 6.00
Liberty, fancy.....	3.00 to 4.00	3.00 to 4.00	Lily of the Valley.....	1.00 to 3.00	1.00 to 3.00
" " ordinary.....	1.00 to 2.00	.50 to 2.00	Paonies.....	..... to .....	..... to
Richmond, fancy.....	10.00 to 15.00	10.00 to 12.00	Sweet Peas.....	.15 to .75	.15 to .75
" " ordinary.....	2.00 to 8.00	.50 to 8.00	Mignonette.....	.50 to 1.00	.50 to 1.00
Golden Gate, fancy.....	10.00 to 15.00	10.00 to 12.00	Adiantum Cuneatum.....	.50 to 1.00	.50 to 1.00
" " ordinary.....	2.00 to 8.00	.50 to 8.00	" " Croweanum.....	..... to 1.50	..... to 1.50
Chatenay, fancy.....	5.00 to 6.00	3.00 to 5.00	Smilax.....	10.00 to 15.00	10.00 to 15.00
" " ordinary.....	1.00 to 3.00	.50 to 2.00	Asparagus Plumosus.....	20.00 to 50.00	20.00 to 25.00
	4.00 to 6.00	3.00 to 5.00	" " & Sprenger, bunches	10.00 to 25.00	10.00 to 50.00
	1.00 to 3.00	.50 to 2.00	Lilacs per 100 bunches.....	5.00 to 50.00	5.00 to 50.00

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PER 100.
TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG		
	May 15		May 15		May 16		May 14		
ROSES									
Am. Beauty and Edgely, fan and sp.	25.00	to	30.00	20.00	to	40.00	20.00	to	25.00
" extra.	10.00	to	20.00	15.00	to	20.00	15.00	to	20.00
" No. 1.	5.00	to	8.00	10.00	to	15.00	10.00	to	15.00
" Lower grades	2.00	to	4.00	5.00	to	10.00	3.00	to	8.00
Bride and Maid, fan. and sp.	8.00	to	6.00	8.00	to	8.00	6.00	to	8.00
" extra.	5.00	to	10.00	4.00	to	5.00	6.00	to	4.00
" No. 1 and Lower grades	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00
Liberty, fancy	8.00	to	5.00	7.00	to	8.00	10.00	to	2.00
" Ordinary	3.00	to	5.00	3.00	to	5.00	3.00	to	5.00
Richmond, Fancy	6.00	to	6.00	8.00	to	8.00	12.00	to	8.00
" Ordinary	3.00	to	3.00	6.00	to	6.00	5.00	to	5.00
Golden Gate, Fancy	6.00	to	6.00	8.00	to	8.00	5.00	to	5.00
" Ordinary	3.00	to	5.00	4.00	to	6.00	3.00	to	5.00
Chatenay, Fancy	6.00	to	6.00	8.00	to	8.00	10.00	to	10.00
" Ordinary	4.00	to	4.00	6.00	to	4.00	8.00	to	4.00
CARNATIONS									
Fancy	3.00	to	3.00	2.50	to	3.00	1.00	to	3.00
Ordinary	1.00	to	2.00	1.50	to	2.00	1.00	to	2.00
MISCELLANEOUS									
Cattleyas	10.00	to	12.50	12.00	to	15.00	8.00	to	12.50
Lilies	8.00	to	10.00	12.50	to	6.00	8.00	to	10.00
Callas	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Paeonies	.35	to	.50	.50	to	.75	.50	to	1.00
Sweet Peas	1.00	to	1.00	1.00	to	1.00	1.00	to	1.00
Mignonette	1.00	to	1.00	1.00	to	1.00	1.00	to	1.00
Adiantum Cuneatum	1.00	to	1.00	1.00	to	1.00	1.00	to	1.00
" Croweanum	1.00	to	1.00	1.00	to	1.00	1.00	to	1.00
Smilax	15.00	to	15.00	15.00	to	15.00	20.00	to	25.00
Asparagus Plumosus, strings	50.00	to	50.00	40.00	to	50.00	30.00	to	50.00
" " & Sprenger, bunches	35.00	to	35.00	25.00	to	50.00	30.00	to	50.00
Lilacs per 10 bunches	10.00	to	10.00	10.00	to	10.00	10.00	to	10.00

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Cycas Revoluta Stems: Lillium Harrisii and Longiflorum.

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Lily Bulbs.

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Carnation Victory.

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Carnations, from soil, Queen Louise and Norway, \$9 per 1000; Boston Market, 1-3-4 in., \$7 per 100; \$18 per 1000. J. W. Dunford, Clayton, Mo.

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Agave Americana (Century Plant) from 2 1/2 to 3 and 4 inch pots, cheap. Send for price lists. James M. Lamb, Fayetteville, N. C.

CHRYSANTHEMUM PLANTS.

Opah, Mildred Ware, Mrs. Weeks, Amorita, Convention Hall, Dr. Enguehard, F. S. Vallis, Mrs. F. Thirkell, Etienne Bonnefond, Alliance, Beauty of Sussex, Mrs. Brice, La Fusion, Merstham Yellow, Fred Lemon, \$2.50 per 100; \$20.00 per 1000. G. S. Kalb, Florence Teal, Glory of Pacific, Polly Rose, Willowbrook, Golden Trophy, Robt. Halliday, D. W. Childs, John Shrimpton, Maj. Bonnafon, Col. Appleton, Niveus, Bride, Pink Ivory, White Ivory, Vivland Morel, Cullingfordii, Ermanilda, Areline, Nagoya, Maud Dean, Mutual Friend, W. H. Lincoln, Black Hawk, F. G. Jones, Golden wedding, Timothy Eaton, Mme. F. Perrin, Wm. Buckham, \$1.50 per 100; \$12.50 per 1000. Address W. F. Kastling, 383-387 Elliott St., Buffalo, N. Y.

Halliday Bros., 329 N. Charles St., Baltimore, Md.

5000 best commercial sorts. List free. Benjamin Connell, West Grove, Pa.

Charles H. Totty, Madison N. J.
For page see List of Advertisers.

Chrysanthemums, Appleton and Alice Ryan, from 2 1/2 in., \$2.50 per 100; \$20 per 1000; 3 1/2-in., \$4 per 100; \$35 per 1000. J. W. Dunford, Clayton, Mo.

CLEMATIS.

Clematis paniculata, 2-yr., transp., \$6 per 100; 1-yr., strong, \$4 per 100. M. Y. Teas, Centerville, Ind.

COBAEAS.

Cobaea scandens, \$1.00 100. Express paid. Chas. Gay, Des Moines, Iowa.

COLEUS.

H. N. Eaton, So. Sudbury, Mass., Rooted Cuttings.
For page see List of Advertisers.

COREOPSIS.

Coreopsis lanceolata, 2 1/2 in. pots, \$2.50 per 100. E. Y. Teas, Centerville, Ind.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.
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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN PLANTS.

C. Winterich, Defiance, O.
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DAHLIAS.

David Herbert & Son, Atco, N. J.
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DAISIES.

The F. W. Fletcher Co., Anburndale, Mass.
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DIGITALIS.

Digitalis in variety, for June flowering. Extra strong plants, \$5.00 per 100. Shatemuc Nurseries, Barrytown, Dutchess Co., N. Y.

FOR SALE — Digitalis Gloxiniaeflora and Grandiflora mixed colors, strong plants, 5c; \$4.00 100; \$35.00 1000. 2000 E. J. Wakefield Cabbage, \$1.50 1000. F. Griswold, Worthington, Ohio.

DRACAENA INDIVISA.

E. & C. Woodman, Danvers, Mass.
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Wm. S. Herzog, Morris Plains, N. J.
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H. H. Barrows & Sons, Whitman, Mass.
Nephrolepis Barrowall.
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W. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Nephrolepis Piersoni Elegantissima.
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FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston, Mass.
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H. Bayersdorfer & Co., Philadelphia, Pa.
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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
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N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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S. S. Pennock, Philadelphia.
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J. Stern & Co., 1928 Germantown Ave., Philadelphia.
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FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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FLOWERS BY TELEGRAPH.

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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
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Thos. Young, Jr., 41 W. 28th St., New York.
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Eyes, 11 N. Pearl St., Albany, N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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FOLDING BOXES.

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Edwards Folding Box Co., Philadelphia.
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GERANIUMS.

Wm. S. Herzog, Morris Plains, N. J.
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A. M. Herr, Lancaster, Pa.
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Geraniums. If you are short on stock write us about our "Special Bench Plants, also 2 1-2" and Rooted Cuttings, The W. T. Buckley Co., Springfield, Ill.

Geraniums, 4-in. in bud and bloom, Richard, Heteranth, Nutt, La Favorite, Buchner, Perkins, Jaulin, Landry, Vland, and other kinds, \$7 per 100; strong 2 1-2 in. plants, ready to shift, \$2.50 per 100. J. W. Dunford, Clayton, Mo.

Geraniums, 300 B. K. Bliss, 2 1-4 in., 2 1-2 c; 200 B. K. Bliss, 3 in., 4 1-2c; 100 Mixed, 4 in., 6c.
Hammerschmidt & Clark, Medina, O.

GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin, N. Y.
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Gladioli. Colors, mixtures and named. All sizes. Also bulbets. E. E. Stewart, Rives Junction, Mich.

GLASS.

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., Boston.
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G. C. Watson, 1614 Ludlow St., Philadelphia.
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Glass, French and American "White Rose" brand. Stenzel Glass Co., 2 Hudson St., New York.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square, New York.
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Hitchings & Co., 1170 Broadway, New York.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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Adam Schillo Lumber Co., West St. and Hawthorne Ave., Chicago, Ill.
Weathered Co., 46 and 48 Marion St., New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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GREENHOUSE GLAZING, PAINTING, BULBING.

W. A. Bruce, 1 Columbus Square, Boston.
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GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for Florists.
Mineralized Rubber Co., New York.
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H. M. Robinson & Co., 8-11 Province St., Boston, Mass.
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Fancy Ferns.
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Crowl Fern Co., Millington, Mass.
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Pierson U-Bar Co., 1 Madison Square, New York.
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Hitchings & Co., 1170 Broadway, New York.
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John A. Scollay, 73 & 75 Myrtle Ave., Brooklyn, N. Y.
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Gurney Heater Mfg. Co., 74 Franklin St., Boston, Mass.
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Kroeschell Bros., 35 Erie St., Chicago.
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HONEYSUCKLES.

Japanese honeysuckles, fine for vase and box work, strong plants, 2 1/2-in., \$2.50 per 100. Harvey B. Snow, Camden, New York.

HOTHOUSE GRAPE VINES.

Rose Hill Nurseries, New Rochelle, N. Y.
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IMPATIENS HOLSTII.

C. Winterich, Defiance, O.
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R. M. Ward & Co., New York.
Plants and Bulbs.
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Perfection Chemical Co., Flushing, N. Y.
Carman's Antipest.
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Nicotine Mfg. Co., St. Louis, Mo.
Nikoteen,
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Hammond's Paint & S. S. Works, Fishkill, N. Y.
Horicum.
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JAPANESE PLANTS.

Yokohama Nurseries, 31 Barclay St., New York.
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LANDSCAPE ARTIST.

William Plumb, 1133 Broadway, New York.
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LAWN MOWER SHARPENER.

G. C. Watson, 1614 Ludlow St., Philadelphia.
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MEMORIAL DAY SUPPLIES.

H. Bayersdorfer & Co., Philadelphia.
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MOONVINES.

Godfrey Aschmann, 1012 Ontario St., Phila.
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MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co., 911 Chemical Bldg., St. Louis, Mo.
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NURSERY STOCK.

Forest Nursery & Seed Co., McMinnville, Tenn.
Forest Tree and Shrub Seeds.
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Hart Pioneer Nursery, Fort Scott, Kansas.
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J. H. Troy, New Rochelle, N. Y.
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NURSERY STOCK—Continued.

John Waterer & Sons, Ltd.
American Nursery, Bagshot, England.
Hardy Rhododendrons, Azaleas, Conifers.
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NYMPEAS.

Odorata Rosa and Marliacea Chromatella,
strong roots, \$3.00 per doz. W. I. Bodfish,
West Barnstable, Mass.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Jullus Roehrs Co., Rutherford, N. J.
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PANSIES.

Pansies, once transplanted, best mixed,
50c. per 100.
Hammerschmidt & Clark, Medina, O.

PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
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PIPE FITTINGS.

Pipe, Valves and Fittings, Cuyler &
Mohler, Baltimore, Md. Manufacturers'
prices, F. O. B. your railroad station. Im-
mediate shipment. Try us.

PLANTS, BEDDING.

Charles Whitton, City and Green Sts.,
Utica, N. Y.
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Hermann Schoenfeld, 86th & Crothers Av.,
Elmwood, Phila.
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Ludvig Mosbaek, Orange, Ill.
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H. N. Eaton, S. Sudbury, Mass.
Coleus, Verschaffeltii, Golden Bedder.
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W. W. Edgar Co., Waverley, Mass.
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J. E. Felthousen, Schenectady, N. Y.
Coleus, Verschaffeltii, Golden Bedder, etc.
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Converse Greenhouses, Webster, Mass.
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PLANTS DECORATIVE.

A. Leuthy & Co., Rosindale, Mass.
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Jullus Roehrs, Rutherford, N. J.
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PLANT STAKES.

H. F. Michell Co., Philadelphia.
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PLANTS HARDY.

M. H. Walsh, Woods Hole, Mass.
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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp.,
\$.125 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PUTTY.

Benj. Hammond, Fishkill on Hudson, N. Y.
Twemlow's Old English Glazing Putty.
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RETAIL FLORISTS.

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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.
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Young & Nugent, New York.
George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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Eyes, 11 N. Pearl St., Albany, N. Y.
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Hardy Roses, H. T. Roses and Ramblers.
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A. N. Pierson, Cromwell, Conn.
Grafted Roses.
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George A. Kuhl, Pekin, Ill.
S. J. Reuter, Westerly, R. I.
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S. G. Harris, Rosedale Nurseries, Tarry-
town, N. Y.

Richmond roses, 2 1/2 in. pots, strong, vig-
orous stock, \$8.00 per 100; \$70.00 per 1000;
4000 plants. Joy & Son Co., Nashville,
Tenn.

Roses, 2 1/2 in. pots, Kaiserines and 300
President Carnots, \$4.00 per 100, \$35.00
per 1000. Cash with order or good refer-
ence. Wm. F. Kasting, 385 Ellicott St.,
Buffalo, N. Y.

Roses. Baby Rambler, the strongest dor-
mant stock in the country, \$25.00 per 100;
2 1/2 in. pot plants, \$7.00 per 100, \$65.00
per 1000. Brown Bros. Co., Rochester,
N. Y.

Crimson Ramblers, extra strong, 2 yrs.,
\$8.00 100. White Ramblers, Yellow Ram-
blers, etc., \$5.00 100. H. P. roses, 50 va-
rieties, 2 yrs., own roots, \$9.00 100.
Gilbert Costich, Rochester, N. Y.

Strong Richmond roses, 2 1/2 in. pots,
\$5.00 per 100; \$50.00 per 1000. Joy & Son
Co., Nashville, Tenn.

Roses, Brides, Maids, Ivory, Gates, Un-
cle John, Chateaux, 3 1/2 in., \$3.00 per 100;
1-yr. plants from bench, \$4.00 per 100. J.
W. Dunford, Clayton, Mo.

SALVIAS.

Salvia Splendens, 500 2 1/4 in., 2 1/2 c.
Hammerschmidt & Clark, Medina, O.

SEEDS.

T. J. Grey & Co., 32 So. Market St.
Boston, Mass.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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J. M. Thorburn & Co.,
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R. & J. Farquhar & Co., Boston, Mass.
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Wm. Elliott & Sons, 201 Fulton St., N. Y.
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A. T. Boddington, 342 W. 14th St., New
York.
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Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O.
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SMILAX.

Seedling smilax from flats, 25c per 100,
\$2.00 per 1000. Postpaid. Harvey B. Snow,
Camden, New York.

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

VINCAS.

E. & C. Woodman, Danvers, Mass.
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35,000 myrtle, Vinca minor, \$10.00 to
\$50.00 per 1000. S. J. Galloway, Eaton,
Ohio.
Vinca minor var., 2 1/2 in. pots, \$4 per
100. E. Y. Teas, Centerville, Ind.

VIOLETS.

H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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WATER LILIES.

Hardy water lilies, white, pink, yellow
and red. Send for price list. W. J. Rich-
ards, Wayland, Ohio.

WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

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Welch Bros., 15 Province St., Boston.

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A. L. Randall Co., 21 Randolph St., Chicago.

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E. H. Hunt, 76-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Reinberg, 51 Wabash Ave., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.
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Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

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Ford Bros., 48 West 28th St., New York.
H. E. Froment, 57 W. 28th St., New York.
Alex. J. Guttman, 43 West 28th St.
E. C. Horan, 55 West 28th St., New York.
Philip F. Kessler, 55 W. 26th St., New
York.
Julius Lang, 53 West 30th St., New York.
A. H. Langjahr, 55 W. 28th St., New York.
James McManus, 42 W. 28th St., New York.
Chas. Millang, 50 West 29th St., New York.

WHOLESALE FLORISTS—Continued.**New York.**

Frank Millang, 55-57 W. 26th St., New York.
 A. Moltz, 55-57 W. 26th St., New York.
 John J. Perkins, 115 W. 30th St., New York.
 John I. Raynor, 49 W. 28th St., New York.
 W. F. Sheridan, 39 W. 28th St., New York.
 Traendly & Schenck, 44 W. 23th St., N. Y.
 Hicks & Crawbuck, Inc., 76 and 78 Court St., Brooklyn, N. Y.

Philadelphia.

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 Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
 S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
 Edward Reid, 1526 Ranstead St., Philadelphia, Pa.

Pittsburg.

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 J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue.**BAY TREES AND BOXWOOD.**

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Welch Bros., 15 Province St., Boston.
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DECORATION DAY FLOWERS AND SUPPLIES.

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DECORATION DAY SUPPLIES.

Crowl Fern Co., Millington, Mass.
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DECORATION DAY SUPPLIES.

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Boblink & Atkins, Rutherford, N. J.
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LILIUM HARRISII AND LONGIFLORUM BULBS.

J. M. Thorburn & Co., 36 Cortlandt St., New York.
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PAEONY BLOOMS.

W. E. McKissick, Philadelphia.
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PAEONY BLOOMS.

Leo Niessen Co., Philadelphia.
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"ROYAL CLUSTERS" LILIES.

Wm. Hagemann & Co., 55 Dey St., New York.
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TUBEROUS BEGONIAS AND GLOXINIAS.

H. A. Dyer, Philadelphia.
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WHOLESALE FLORISTS.

Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
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WITTBOLD WATERING SYSTEM.

Louis Wittbold, 1657-59 Buckingham Place, Chicago.

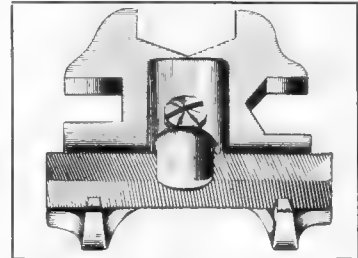
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VIOLET PRINCESS OF WALES.

William Sim, Cliftondale, Mass.
 For page see List of Advertisers.

WHY PAY \$1.50

every time you want your Lawn Mower sharpened? The little dingus we advertise herewith will do it in five minutes and better than any machine shop. We've tried it ourselves and know what we are talking about. A child can do it. Entirely new



and away ahead of any similar device on the market. Has eight cutting surfaces that can be used in succession. Made of the highest grade crucible steel. Will last a life-time. Try it.

Postpaid **75c.** Postpaid

Show it to your friends. A liberal discount allowed to agents. Satisfaction guaranteed. It's the greatest little article you ever saw, simple as it looks.

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Seedsman **1814 Ludlow St. Philadelphia**

WANTS

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR RENT

TEN GREENHOUSES in running condition; possession immediately; \$50. Dwelling house attached, \$12; or will run on shares.

Apply **TRAENDLY & SCHENCK,**
 44 W. 28th Street, N. Y.

FOR SALE Old established florist business, 5000 feet of glass, six acres of land well cultivated, within one mile of centre of a city with 100,000 population. Old age only reason for selling. Address Mack, care HORTICULTURE.

WANTED A Foreman Gardener, one with experience in shrubbery preferred. Apply at Mt. Auburn Cemetery, Cambridge, Mass.

WANTED For a private estate in Massachusetts, a steady and competent man (married preferred) as night fireman and engineer. Steam boilers; small electric light plant. Comfortable position for the right man. Address with references, W. care HORTICULTURE, 11 Hamilton Place, Boston.

HORICUM**KILLS SAN JOSE SCALE**

Made by **HAMMOND'S SLUG SHOT WORKS,** Fishkill-on-Hudson, N. Y.
 SOLD BY SEED DEALERS OF AMERICA.

Glenside, Pa., March 31, 1906.

HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.

Gentlemen:—Seeing "Horium" mentioned in Monthly Bulletin of Div. of Zoology, Penna., I would thank you to inform me where I can get a supply, say about a gallon for trial.

The San Jose Scale is very bad around this section and could no doubt push sale of the solution, especially as it is spoken of so highly in above Bulletin.

Your early reply will oblige, Yours respectfully,

P. S. Glenside is twelve miles from Philadelphia.

H. J. HINDS.

FINE SILVER CUPS and TROPHIES

For Exhibition Awards, Sporting Events, etc.

FINEST ASSORTMENT IN THE COUNTRY FROM THE BEST MANUFACTURERS AND AT LOWEST PRICES.

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 LAWRENCE, MASS.

Greenhouse Glazing, Painting and Bulbing a Specialty

ALL WORK DONE NEATLY

Orders Solicited for
 Twemlow's Old English Glazing Putty

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TELEPHONE 1198-7 TREMONT

STRIKE STRIKE STRIKE

My heating men are not out on strike. Why? Simply because I granted their demands for increase in wages at once. I am well aware of the fact that to get the best results you must have the best mechanics obtainable. That is the reason I am constantly in receipt of such letters as this.

Mr. Wm. H. Lutton,

Dear Sir:—Enclosed please find check in payment in full of heating contract for my No. 4 rose house, everything is perfectly satisfactory, and I am much pleased with your work as well as your promptness.

Yours very truly, A. P. SMITH.

Let me figure on that heating or repair work, it will be to your interest. Everything in heating, boiler supplies, rates, smoke boxes, fire doors, etc.

WILLIAM H. LUTTON, West Side Ave. Station, Jersey City, N. J.

**NOW IS THE TIME TO ORDER
ANCHOR GREENHOUSE HOSE
BEST FOR FLORISTS
MINERALIZED RUBBER CO., - NEW YORK**

FOR SALE GLASS

New American 10x12 single, \$1.75 per box; 12x12 single, \$1.90 per box; 10x12, 12x12, 10x15 double, \$2.65 per box; 12x14, 12x20, 14x14, 14x20, double, \$2.88 per box; 10x16, 16x18, \$3.10 per box; 16x24, double, \$3.40 per box; 8x10, 8x12, 10x12 second-hand at \$1.50 per box.

GARDEN HOSE New 3/4-in., guaranteed 100-lb. pressure, 7 1/2¢ per ft.; 1/2-in., not guaranteed, 4 1/2¢ per ft.

HOTBED SASH New, Cypress, 4x6 ft., from 75¢ up; glazed, complete, from \$1.60 up. Second-hand, in good condition, all glass in, at \$1.00 each.

PIPE Good, serviceable, second hand, with threads, 2-inch, 7¢; 1 1/2-inch, 5 1/2¢; 1 1/4-inch, 4¢; 1-inch, 3¢; 3/4-inch, 2 1/2¢; 3/8-inch, 1 1/2¢; 1/2-inch, 19¢. New 2-inch, standard, full length, with couplings, 8 1/2¢ ft. Old and new fittings and valves.

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**BOILERS, PUMPS, STILLSON WRENCHES
STOCKS and DIES, PIPE CUTTERS
PIPE VISES, CYPRESS MATERIAL, ETC.**

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GREENHOUSE MATERIAL
OF ALL KINDS
VENTILATING APPARATUS
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HOT-BED SASH
SEND FOR FREE ILLUSTRATED CATALOGUE

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FOLEY MANUFACTURING CO.,
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POT MAKERS FOR 140 YEARS

A. H. HEWES & CO. INC. CAMBRIDGE, MASS.

EVERY KIND OF FLORIST WARE

BY SLIPPING A PEERLESS GLASS REPAIR CLAMP

over a cracked glass you protect your stock, save coal and glass. Do it now before the high winds play havoc with your roofs. \$1.00 will repair 150 lights. Ask your supply man, or

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Endorsed by about 400 prominent florists.

WEATHERED COMPANY

46 MARION ST., NEW YORK

GREENHOUSE BUILDING AND HEATING

Send for Catalogue.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 2 1/4 " " " 5.25	60 8 " " " 3.00
1500 2 1/2 " " " 6.00	
1000 3 " " " 5.00	HAND MADE
800 3 1/2 " " " 5.80	48 9 in. pots in crate \$3.60
500 4 " " " 4.50	48 10 " " " 4.80
320 5 " " " 4.50	24 11 " " " 3.60
144 6 " " " 1.16	24 12 " " " 4.80
	12 14 " " " 4.80
	6 16 " " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

In writing to Advertisers kindly mention HORTICULTURE.

Standard Flower.. POTS

If your greenhouses are within 500 miles of the Capital, write to us, we can save you money

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Holds Glass Firmly
See the Point
PEERLESS

Glazing Points are the best. No rights or 10¢. Box of 1,000 points 75 cts. postpaid.

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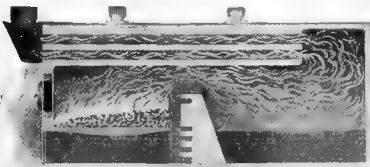
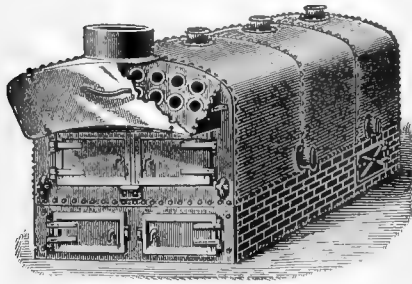
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Greenhouse Boiler,

35 Erie Street, CHICAGO.



Boilers made of the best material: shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

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ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

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NEPONSET, BOSTON, MASS.

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GREENHOUSE CONSTRUCTION
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John C. Moninger Co.

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NOW IS THE TIME TO INSURE
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BY HAIL. For particulars address

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YOU DON'T HAVE TO BOTHER

painting the interior of a U-Bar greenhouse every year or so.

U-BAR GREENHOUSES Are the Best Greenhouses Built

because the interior finish is aluminum and its a finish that lasts. It's just as light as the day it was put on five years ago, in the first house we tried it in. Not a speck of mildew to be seen. It's just the kind of house that fills the gardener and the owner with merited pride.

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BEFORE YOU BUY A GREENHOUSE

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Designers and Builders

U-BAR GREENHOUSES

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AMERICAN AND FRENCH GREENHOUSE GLASS

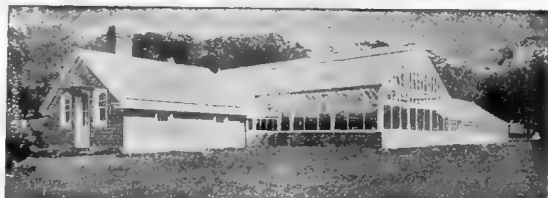
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Patronize our advertisers, they will treat you right

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We Figure High Enough

to use only the best of materials—low enough to insure perfect satisfaction to the buyer. If you want the best greenhouse, you want our materials—you will believe in our price.

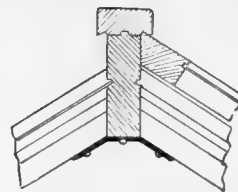
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Greenhouse Designers and Builders

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THE RIDGE— OUR KIND

In the first place the ridge cap is grooved to take the tongue of the ridge—this insures an absolutely perfect lining up and an even overhang on both sides; the overhang is grooved for vent sash, making a storm-proof proposition.

The sash bars are fastened to the ridge by a wrought steel "hold fast," which being screwed to the sash bar and ridge, makes a strong, tight non-spreading joint.

—Now you see how strongly the entire ridge is bound together—it's just our way of binding and strengthening the entire house—it's the kind of house you are bound to buy if you don't want to bind yourself to disastrous repair costs.

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Boston Branch: 819 Tremont Building

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The Holly-Castle Company

is now prepared to contract for the BUILDING and HEATING of new ranges of greenhouses. Also rebuilding, repiping and rearranging the heating apparatus of old ranges.

The Holly-Castle Circulator Installed and Absolute Circulation Guaranteed

We have heating engineers of the highest ability and long experience and will do first class work.

 PLANS AND ESTIMATES FURNISHED

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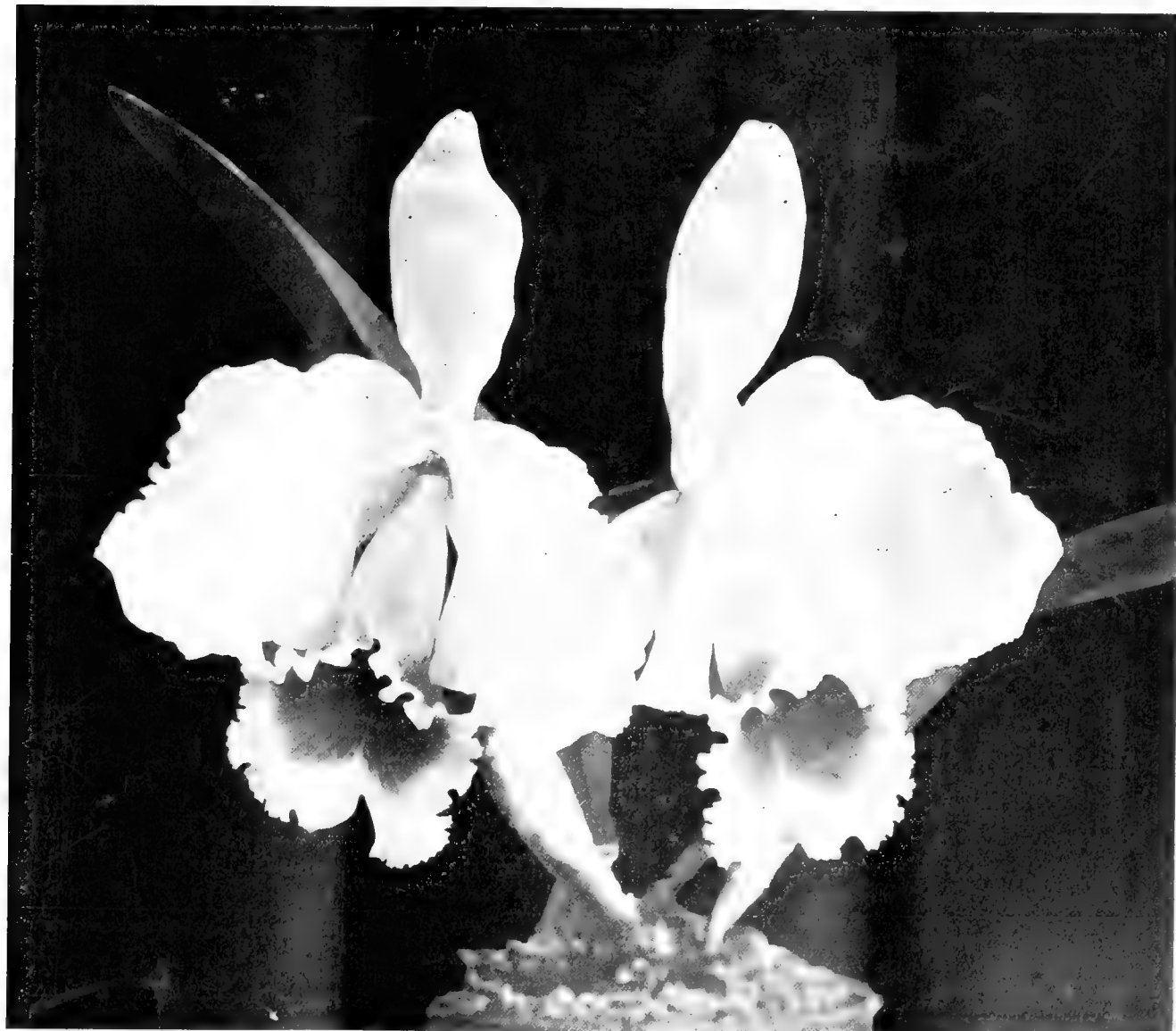
 **Building and Heating Engineers**

Address after June 1, 170 Summer St.

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HORTICULTURE

Vol. III. MAY 26, 1906 No. 21



CATHIYA SCHREDERE HERCULES

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
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Subscription, \$1.00*

BAY TREES

We offer splendid specimens from the best growers in Belgium, guaranteed to be in first-class condition, at the following prices **to the trade only.**

Ht. of Stem	Diam. of Ball	Per Pair
4 ft.	30 in.	\$12.00
4 ft.	3 ft.	18.00
26 in.	24 in.	6.00
4 ft.	6 ft.	125.00
4 ft.	5 ft.	85.00
4 ft.	4 ft.	40.00

30 Pyramid Bay Trees, 8 to 9 ft. high, 3 ft. in diameter, price per pair, \$28.00

2 Specimen Pyramid Bay Trees, diameter of base, 7 ft., diameter of top, 3 ft., price for the pair, \$200.00.

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An immense supply of lilies, carnations, roses, lilacs, stocks, spiræa, etc., specially growing for this purpose. Also, baskets, wire frames, inscriptions, immortelles, wild ferns and other green material.

ALL AT LOWEST WHOLESALE PRICES

N. F. McCARTHY & CO., 84 Hawley Street, Boston, Mass.

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QUARTERS FOR**

PRINCESS VIOLET STOCK

The **Princess of Wales** is still the leader of all single violets. There is no other variety on the market that can compare with it as a commercial violet because it blooms from Sept. 15th to May 1st; every bloom is marketable. It has size, it has color, it has length of stem. It has fragrance. It sells when any other variety, single or double, can not be given away. The people want it.

So great is my confidence in this violet that the following Autumn I will devote 80,000 feet of glass to the growing of this variety.

I have about 200,000 nice young divisions now ready to ship at the following prices:

\$2.00 per 100

\$15.00 per 1000

500 at 1000 Rates

Lots of 5000 at \$14.00 per 1000

Lots of 10,000 \$13.00 per 1000

WILLIAM SIM,

- Clifftondale, Mass.

Order your Violet Stock now

Largest grower of Violets in America

GILT-EDGED ROSE STOCK

Large plants ready for Bench. (Own Roots)

Richmond	3 in.	\$10.00 per 100;	\$30.00 per 1000
Wellesley	3 "	6.00 " "	
"	4 "	8.00 " "	70.00 " "
Chatenay	3 "	4.50 " "	
Killarney	3 "	8.00 " "	70.00 " "
Maids	3 "	4.00 " "	35.00 " "

Grafted

Extra strong and good 4 in. stock.

Killarney	\$16.00 per 100;	\$135.00 per 1000
Gates	10.00 " "	
Chatenay	10.00 " "	

S. J. REUTER, Westerly, R. I.

GOVERNOR HERRICK

The NEW VIOLET

The finest single, the freest bloomer, the greatest money maker ever offered for sale. Write me today.

1 doz., \$2.00; 100, \$10.00; 1000, \$75.00;
5,000 or more at \$60.00 per 1,000

H. R. CARLTON

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Special Prices TO CLOSE OUT Tuberous Begonias and Gloxinias

We have a surplus lot of Begonias and Gloxinias of best quality. In order to close them out quickly we offer at reduced prices. If these bulbs are started now they will make an attractive display during the summer months, at a time when there are but few flowering plants in a salable condition in pots.

Single Begonia—Separate colors. Yellow, Red, Pink, Orange and White, 30 cents per dozen; \$2.25 per 100; \$20.00 per 1000.

Single Begonias in Mixture—25 cents per dozen; \$2.00 per 100; \$17.50 per 1000.

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Gloxinias in Finest Mixed Varieties—35 cents per dozen; \$2.50 per 100; \$25.00 per 1000.

HENRY A. DREER

714 Chestnut Street,

PHILADELPHIA, PA

Some People have taken our advice as published in

these columns recently and are buying **My Maryland** for trial. We reiterate here—if it succeeds with you as it does with us, it will prove the best white carnation you ever grew. Despite the variety's apparent failure in several places, we strongly advise all growers to give it a trial. We have been frank about its faults as developed in other places. We doubt if these will develop in many places.

Jessica we believe, will succeed generally and will prove to be the best red and white variegated ever disseminated. Few varieties show as strong constitution as this one does and it is a wonderful producer. Extra fine stock of both varieties ready now. R. C., \$2.50 per doz.; \$12.00 per 100, \$100.00 per 1000. Pot plants, \$3.00 per 100 extra.

Send for our catalog, now ready.

The H. Weber & Sons Co., Oakland, Md.

	100	1000
RICHMOND ROSE 2½ in.	\$12.00	\$100.00
KAISERIN " "	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
ENCHANTRESS	3.00	25.00
QUEEN and LAWSON	2.00	18.00

1st March delivery **E. H. PYE, FLORIST**
UPPER NYACK, N. Y.

CHICAGO CARNATION CO.

JOLIET, ILL.

JAMES HARTSHORNE, Manager.

Dracaena Indivisa, 2½ in., 4 in., 5 in., 7 and 8 in., per doz., 75 cts., \$2.00, \$3.00, \$4.00 and \$5.00. Per 100, \$6.00, \$15.00, \$20.00, \$30.00 and \$40.00.

Vinca variegata, 4 in., 5 in. Per doz., \$1.50, \$2.00. Per 100, \$12.00, \$15.00.

Dahlias, tubers per doz. 75 cts., per 100, \$6.00.

Variegated Century Plants—prices and sizes on application. Cash Please.

E. & C. Woodman, Florists, Danvers, Mass.

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ROOTED CUTTINGS for fall delivery in any quantity. Orders solicited now. Send for list. SMITH, PRIMO, ROBERTS and STEINER. Carefully grown, ready June 15th to September 15th, at moderate prices. Send for list.

ALBERT M. HERR, LANCASTER, PA.

My Special Mum Offer

100 Plants in 10 Varieties for \$5 00

Send me a list of varieties that you already have, and I will send you 10 newer varieties that you ought to have, such as

Jeanne Nonin, White Coombes, Mrs. Swinburne, etc.

The great MORTON F. PLANT now ready at \$7.50 per doz., in 2½ inch pots.

My motto is still the same. Your money back if not entirely satisfied.

CHARLES H. TOTTY
MADISON, N. J.

SALVIA, 3 in. in Bud and Bloom	\$2.00 per 100
LOBELIAS, 3 in. " " "	3.00 " 100
VERBENA, 2½ in. " " "	1.50 " 100
SINGLE FRINGED PETUNIAS, Transplanted,	
70c. per 100, by mail, \$5.00 per 1000. Ex.	
VICTORIA ASTERS, Transplanted,	
50c. per 100 by mail, \$3.00 per 1000. Ex.	
PANSIES, Best strain, Transplanted,	
50c. per 100 by mail, \$3.00 per 1000. Ex.	
C. WHITTON, City St., Utica, N. Y.	

100,000 GERANIUMS IN 10 BEST VARIETIES

Finest stock in country, strong, 3-in. in bud and bloom, \$4.00 per 100, \$35.00 per 1000; 4-in. in bud and bloom, \$5.00 to \$6.00 per 100. **Dracaena Indivisa**, extra large, 5 and 6-in., \$2.00 and \$3.00 per doz.; 3 ft., \$4.00 per doz. **Dreer's single fringed Petunias**, **Salvias**, **Heliotrope**, most in bloom; strong, 3 in., \$3.00 per 100. **Begonia Vernon**, in bloom, strong, and, \$4.00 per 100. **WM. S. HERZOG, Morris Plains, N. J.**

Geraniums, red, white and pink, 4 in. pots	\$7.00
Cannas, Mad. Crozy, Alph. Bouvier, Egandale, Italia, Queen Charlotte	8.00
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Verbenas, 2½ in. pots	2.50
Petunias, 2½ in. pots	2.50
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DAVID HERBERT & SON,

Successors to L. K. Peacock, Inc.

ATCO, N. J.

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My stock comes from an Excellent Source. Why not place your order early to secure June and July delivery.

Strong 2½ in. plants, \$15 per 100, \$140 per 1000

S. S. SKIDELSKY

824 No. 24th Street, - Philadelphia

Dracaena Indivisa	6 in.	\$5.00	Doz.
Vinca Variegata	4 "	10.00	100
Feverfew	3 "	3.00	100
Fuchsias	2½ "	3.00	100
Alvissum	3 "	3.00	100
Begonia Vernon	2½ "	3.00	100
Verbenas from Flats		1.50	100

Cash with Order Please
CONVERSE GREENHOUSES, WEBSTER, MASS.
F. R. CONVERSE

GRAFTED ROSES

KILLARNEY

and all of the leading varieties. One hundred and thirty-six thousand rose plants grafted this year. Read our list:

Grafted Stock. From 2 1/4 Inch Pots.

KILLARNEY. \$15.00 per 100; \$120.00 per 1,000.

Richmond. \$25.00 per 100; \$200.00 per 1,000.

Rosalind Orr English. \$20.00 per 100; \$150.00 per 1,000.

Etoile De France. \$20.00 per 100.

Wellesley. \$20.00 per 100; \$150.00 per 1,000.

Liberty. \$20.00 per 100, regardless of number ordered.

The above varieties on their own roots, from 2 1/4 inch pots, very fine plants, repotted from 2 inch pots.

Killarney. \$10.00 per 100; \$90.00 per 1,000.

Richmond. \$15.00 per 100; \$120.00 per 1,000.

Wellesley. \$10.00 per 100; \$90.00 per 1,000.

Rosalind Orr English. \$10.00 per 100; \$90.00 per 1,000.

Laman Cochet. A magnificent pink rose of Mermet type, and the best of our out door bedders, \$15.00 per 100.

RICHMOND

Standard Varieties Grafted.

Ivory. Franz Deegen. Bridesmaid. Souvenir du President Carnot.

Bride. Kaiserin Augusta Victoria. Madam Hoste. Madame

Caroline Testout. Meteor. La Detroit. Golden Gate. Mrs.

Pierpont Morgan. Madame Abel Chateau. Grafted from 2 1/4 inch

pots, \$15.00 per 100; \$120.00 per 1,000; for A No. 1 stock; nothing else

will be sent out. The above varieties on their own roots, from 2 1/4 inch

pots, \$5.00 per 100; \$45.00 per 1,000.

American Beauty. On own roots, from 2 1/4 inch pots, \$8.00 per 100; \$75.00

per 1,000. 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and

June deliveries.

Mr. Norbert Levavasseur (The Baby Rambler). An ever-blooming

dwarf Crimson Rambler. We will furnish May delivery plants of this sen-

sational rose from 2 1/4 inch pots, at \$2.75 per dozen; \$17.50 per 100; \$42.50 per 250.

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HOTHOUSE GRAPE VINES,

fine strong, two and three year old canes, Black Hamburg, Muscat Alexandria and other varieties

Rose Hill Nurseries,
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Palms, Ferns and Decorative Plants

Just received in fine condition a large consignment of Palms, Araucarias and other foliage plants.

We also have to offer some strong bushy Ferns for Dishes in variety; also Pandanus, Dracenas, Marantas, Crotons and Bedding Plants.

Wholesale Price List on application.

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Perkins Street Nurseries, Roslindale
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NEPHROLEPIS BARROWSII. \$10 PER 100
SCOTTII, (All Sold) . . . 5 " "
BOSTON, 3 " "

HENRY H. BARROWS & SON,
Florists, Whitman, Mass

Some give you quantity, some quality, I give you both

Bostons and Scotti

8000 6 in. Bostons at 40c.

8000 6 in. Scotti at 40c.

PANS

\$1.00 \$1.50 \$2.00 and \$2.50

WILLIAM C. SMITH

61st and Market Sts.,
PHILADELPHIA

#8- No C. O. D.'s Satisfactory References required or t.e cash. Five oif if remittance accompanies order.

KILLARNEY

The most profitable Rose to date.
Strong, thrifty young plants.

\$10 per 100. \$90 per 1,000

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Rose Hill Nursery
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Orchids

Largest Importers, Exporters, Growers
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Sander, St. Albans, England

Arrived in Splendid Condition

Cattleya Mossiae, C. Percivaliana, C. Speciosissima
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fragrans and Cycnoches chlorochilum.

Write for Prices

Lager & Hurrell Growers and Importers **Summit, N. J.**

A. W. SMITH'S

HYBRID MOON VINE

(Ipomea Noctiflorum)

purest white, earliest moon vine in existence. Mr. A. W. Smith has the world-wide reputation of being the originator of the best moon vine seed in the country. **GODFREY ASCHMANN** of 1012 Ontario Street, Phila., is the wholesale grower for them, and has about 15,000 now ready. 2 1/2 in. pots, \$5.00 per 100. Cash with order.

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HORTICULTURE

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Scillas

The genus *Scilla* has about eighty species and their homes are in the temperate parts of Europe, Asia and Africa. Many of the species are not common in cultivation. Some are quite hardy while others require the protection of a cool greenhouse.

This short story will only enumerate some of the best hardy kinds. Their culture is very simple, requiring a light, rich soil and thriving in full sun or in a partially shady position. Plant in the fall when the bulbs are at rest placing them in the soil to a depth of about four to six inches. When once planted they do so much better if not disturbed for several years. They are pleasing subjects for the margin of the hardy plant border, and few plants are more satisfactory when they are properly placed than colonies of these in the rock garden. Some of the species are excellent for naturalizing in the grass.

The Siberian squill, *Scilla sibirica*, is one of our earliest spring flowers and it is certainly a gem. What would we do in early spring without its sheets of porcelain blue? It makes a fitting companion to the snowdrops and crocuses which all flower about the same time. We ought to adore these dwarf messengers who have come through frost and snow to tell us their story that dreary winter is almost gone and that spring is once more at hand. The first crocus, the first snowdrop, the first squill and the first dandelion are always greeted with exclamatory expressions. Often have I thought and wondered where and how have these children of the snow accumulated heat out of the cold earth to make them send forth their leaves and flowers while mostly all other plants are sleeping contentedly and waiting for more propitious weather. Early spring-flowering plants and late fall-flowering plants have unquestionably attributes which ought to put them in the first rank amongst hardy plants.

We have a white variety of the Siberian squill but it is not as vigorous or floriferous as the species. However, for variety's sake it is worth having in a collection.

Scilla bifolia is not as common or yet as showy as the Siberian squill. It attains about the same height and requires the same cultural conditions. The Spanish squill, *Scilla hispanica*, is an old garden plant and has been in cultivation for a very long time. However, although it is antiquated it is not over planted in this country yet. The photograph shows the handsome plant it makes in an ordinary hardy border. It produces a good crop of flowers right through the month of May, beginning to flower earlier in warm sheltered positions than it does in less congenial quarters. The flowers are produced gracefully above the dense green foliage and makes an imposing plant when several bulbs are planted together. If it receives liberal treatment its flower stems will attain a height of from twelve to fifteen



inches. It is the finest of the blue flowers we have in early May. There are several varieties of this plant; one which is very good has white flowers; *carnea* has flesh-colored and *rosea* has rose-colored flowers. In the rock garden it shows to good advantage and is not particular either, doing well in full sun or partial shade.

The common blue-bell, *Scilla festalis*, is a very common plant in England, but is not grown very much here although it is quite hardy. It is lovely when naturalized and there is no reason why it should not be planted plentifully as the bulbs are inexpensive. The flowers are produced well above the foliage and are arranged in a drooping fashion on one side of the flower stem. It is pleasing in tufts on the margin of the border and also gives fine effects in the rockery. This species has also many varieties in different shades of color.

There are several other varieties but these are the most satisfactory in our gardens.

Robert Lamer

Cattleya Schroederæ Hercules

We are indebted to Messrs. Lager & Hurrell, of Summit, N. J., for the photograph of the elegant cattleya which furnishes our frontispiece for this issue. The flower measures over eight inches in diameter. The form is simply perfect. Sepals and petals are white and, unlike the type, are of a firm, waxy texture which makes the flowers stand out boldly. The disc of the lip is bright orange-yellow, surrounded by a zone of white almost imperceptibly suffused with pale lavender. It is declared to be the grandest and in all respects most nearly perfect *Cattleya Schroederæ* ever shown.

HORTICULTURE FREE TILL JULY

All subscriptions, new or renewed, sent in between the present time and July 1 will be dated ahead to July 1. Send your dollar. No time like the present time.

Theories and Facts in Plant Breeding

In the issue of HORTICULTURE for April 21st, 1906, there is an article entitled "The Real Inwardness of Hybridizing," by N. B. White. This contains many statements which are very loose and very inaccurate, especially for one, who, avowedly, by word and by title, gives the impression that he is stating the scientist's point of view. Not only this, but the article summarizes two laws in a manner both absurd and incorrect. These laws have been deduced from recorded experiments, carefully tabulated and studied; they have been given out by biologists as attempts at expressing the truth, and as attempts "to declare the course of heredity under given conditions." They are interesting, historically as showing the development of methods, work and theories; they are useful practically in direct proportion as they enable us to predict of our attempt at hybridizing and cross-breeding.

The Galton law, amended by Pearson, is of little value to practical men and is somewhat as crudely stated by Mr. White. The Mendel law promises to be of great value, though still under heavy fire of discussion and experiment and an absolutely definite statement that it "is a great boon to breeders" can not be safely made now. However, these experiments are giving much which in time may prove the law to be the great desideratum for which we are all seeking.

In 1901, in its Journal, The Royal Horticultural Society of England published a translation of Mendel's own paper describing his experiments. This was made by Professor W. Bateson of Cambridge University and is, so far as I know, the first publication of this paper in English. Nowhere in this or in subsequent papers could any statements be found which would lead to such a change of breed in poultry as Mr. White describes, nor could Mendel find in this description any trace of his theory. Mr. White in his version of Mendel's law supposes "the purity of parents, hence, the purity of germ cells." Does it take a law deduced by hard labor, both mental and physical, as Mendel's law was, to predict that if two pure individuals be bred together their offspring will be pure? How could it be otherwise. Such a statement is adding insult to injury. The conception of "the purity of parents" is not only untenable but unthinkable, unless we throw away our basal theory of evolution and accept that of special creation, when, I grant, the individuals, fresh from the workshop of the creator would be pure. But in how few generations would such a mixture come into existence as would make Mr. White's head swim.

Mendel experimented on a number of varieties of plants, choosing those characters which contrasted markedly and which could not be open to questions when results were to be given out, and which could be readily recognized. By common consent those experiments on the ordinary garden pea have become classic. In the tabulation of the results of his experiments, Mendel found that there was a marked difference in the inheritance of two contrasting characters, in a definite number of experiments each appeared in a definite proportion and ratio. That character which appeared the more often was called a "dominant character," that

appearing less often was called a "recessive character" and together we have deduced the conception of "unit character." Selecting at random three of Mendel's own illustrations from his pea experiments we have:

1. The shape of the ripe seed, whether round and smooth or angular and wrinkled.
2. Shape of the seed pod, whether simply inflated or deeply constricted between the seeds.
3. Length of stem, whether the plant is giant or dwarf.

The tabulations show that the round smooth seeds, the simply inflated pods and the giant stems are the dominant characters of these three pairs of Mendelian characters. The dominants and recessives appear in the proportion of 3:1. This is the first tenet of Mendel's law; the second is that the germ cell is pure, that is that it carries either the dominant or recessive character of any given pair of contrasted characters, but never both, a perfectly tenable and thinkable position, for a pea could not be both smooth and wrinkled, its pod could not be both inflated and constricted nor could its stem be both dwarf and giant.

The following statement of the law is Mr. Bateson's; it is not rough and it has one strong recommendation, Mendel would recognize it if he were to read it. It is taken from the Royal Horticultural Society's Journal, already referred to. "The conclusion which stands out as the chief result of Mendel's admirable experiments is of course the proof that in respect of certain pairs of differentiating characters the germ cells of a hybrid or cross bred are pure, being carriers and transmitters of either one character or other, not both. That he succeeded in demonstrating this law for simple cases with which he worked it is scarcely possible to doubt.

"In so far as Mendel's law applies, therefore, the conclusion is forced upon us that a living organism is a complex of characters, of which some, at least, are dissociable and are capable of being replaced by others. We thus reach the conception of unit characters, which may be rearranged in the formation of the reproductive cells."

It will indeed be the millennium when we can analyze the pollen cells and the ovules and read their characters, that will be of vast help to practical plant breeders, for of course, we will then be able to revitalize these sources of life after we have killed and fixed them preparatory to our examination; and then, each and every other pollen grain or ovule will carry with it its own recommendation. Let us hope that they will be more truthful than the majority of recommendations which one gets. Let Mr. White examine a little into the intricacies of these cells which he so glibly plans to read as a phrenologist reads one's head and discover how difficult it is to understand in a small measure the plain physical structure and how many years and how much labor have been spent upon gaining the small store of knowledge we now have in this direction.

The closing statement is a marvellous finale to Mr. White's article. I would ask him to compare it with his opening statements, and then tell me what its point is.

Ann Dorrancey

Dorrancey, Pa.

British Horticulture

A WELL DESERVED HONOR.

Mr. Edwin Beckett is the latest recipient of the Victoria Medal of Honor awarded by the Royal Horticultural Society. The number of these awards is limited to 63, and they are given to horticulturists who have distinguished themselves in some special department. Mr. Beckett's record is one of which any man may feel proud. Commencing with the advantage of inheriting a love of gardening from his father and grandfather, he early in life displayed an aptitude for the profession he now adorns, for he became a foreman at the age of 17. In 1884 he secured the charge of the magnificent gardens at Aldenham House, Elstree, the seat of Lord Aldenham, and he continues in that important position. Some extensive work in remodelling the gardens has been carried out during Mr. Beckett's tenure of office. Mr. Beckett is known far and wide as an exhibitor. He formerly showed chrysanthemums, and exhibiting 52 "twenty-fives" in various parts of the country he was only beaten twice. As an exhibitor of vegetables Mr. Beckett holds a premier position. He has secured the first prize at nearly every show at which he has exhibited, including several gold medals received from the Royal Horticultural Society. His practical knowledge of this section of horticulture has been embodied in a well-known work entitled "Vegetable Culture." Mr. Beckett's name is further perpetuated by the cup and tube which he has invented for exhibiting chrysanthemums.

A MAN OF MANY PARTS.

One of the busiest men in the horticultural world is Mr. Walter P. Wright. One day I encounter him organizing the annual show of the National Potato Society, of which he was the founder, then as a judge at a leading show, later touring in Kent, where he acts as horticultural superintendent and lecturer. The next morning I receive enlightenment from the horticultural weekly Mr. Wright edits, relaxation from a gardening story he has published, and knowledge from a useful dictionary he has supervised. Mr. Wright has now been appointed superintendent and lecturer of the horticultural department at the South Eastern College, at Wye. I have pleasant recollections of a delightful day spent at Mr. Wright's old-world Kentish home, whose placidity is in striking contrast to the strenuous life of its owner. Here Mr. Wright occupies his limited leisure by filling a parochial appointment. In my many chats I have not yet found the secret of his marvellous out-put—apparently he has discovered some method of dispensing with sleep, except when he travels to and from London. There is a great deal in heredity. Mr. Wright's father is well known as a horticultural lec-

turer and writer, whilst his brother has rendered yeoman service as the secretary of the National Sweet Peas Society. Besides the work already enumerated, Mr. Wright is acting as secretary to a horticultural education association formed of the county instructors in gardening.

GARDENERS COMBINE.

In using this heading I do not wish to imply that British gardeners are now seeking to make a "corner" of their labor. The British Gardeners' Association, the members of which are about to hold their annual meeting, now numbers nearly 1000 members in various parts of the country. The association was formed with the laudable object of improving the status of the gardeners. Whilst for many years there have been organizations which have provided benevolent funds for gardeners, until recently there was no combination for the journeyman's advancement. The association will serve a useful purpose in giving a better standing to competent men, and in protecting employers against men who are not qualified to hold a position. There is now a register containing the names of capable men who are seeking appointments. Gardeners in nurseries and private establishments are qualified for membership. There is no intention to make it a trades union, for that form of combination has many objectionable features, and would receive the vigorous opposition of employers. In gardening work there cannot be the same regulation of hours and a uniform standard of wages as are governed by the unions of many trades, for the conditions of the work are so totally different. The new association has made a good start and should fill a very useful part in the gardening world.

W. H. Gelssett.

London, England, May 12th, '06.

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WM. J. STEWART, Editor and Manager.

The cut flower trade and the Greek

The plaint which comes from one of our western correspondents anent Greek competition in the flower trade is one which, sooner or later, is sure to come from every community where a surplus stock is in evidence. The Greek or other "curbstone merchant" (they are not all Greeks) thrives on the surplus. The remedy lies at the foundation; either curtail the production by restricting greenhouse extension or make other disposal of it, destroying it or shipping it elsewhere. Neither of these courses has any fixed practicability. The situation and its annoying perplexities are easily understood but the flower trade has no monopoly on it for the problem of "ruinous competition" is as old as business and is likely to continue to the end. We might mention in passing that the grower is losing no sleep on the Greek question.

Two important measures

Among the most important measures on which action by Congress is called for are the parcels post bill and the appropriation of three million dollars for the creation of forest reserves in the water sheds of the Appalachian and White mountains. Both of these projects should appeal strongly to every friend of horticulture, the first because it furnishes a much-needed means for the delivery of seeds, plants, flowers, etc., at small cost and provides a safeguard against extortion by express companies, and the second, not only for utilitarian reasons which are now generally well understood but also for æsthetic considerations—the rescuing from destruction of a small remnant of our forests of noble trees and the practical recognition of that beauty and sublimity of landscape which is the basis of all our out-door decorative work. It will be a matter of but a few minutes for each one of our readers to write to his senator and representative asking him to support these two measures. Do it now.

A promising outlook for the gardener

Considering the long hours of employment, the experience, intelligent skill, and unremitting attention demanded, we believe that gardeners, whether employed in a commercial or private capacity, are among the most poorly paid

workers on this continent. Florists' clerks—that is, in city stores—receive salaries much larger than the pay of the average grower. One reason advanced in explanation of the inadequate compensation received by expert greenhouse and garden workers as a rule is the constant influx of gardeners from foreign countries who, unmindful of the greater cost of living in this country, eagerly accept wages which appear to them large as compared with what they have been receiving hitherto. It is from this foreign-born element that the majority of our best gardeners have come. Well-trained American-born experts have been out of the question, partly because of the characteristic indisposition to give necessary time to thorough training, but largely because the outlook for future emolument was so disproportionate. We think we see signs of a change now. The future of horticulture in this country has taken on a different aspect within a few years. Sons of men who have achieved success in commercial horticulture are staying in the business instead of deserting it. Note the appearance of the young men shown in our picture of last week of the graduating class in horticulture at Amherst College. Do they look like "\$1,000 a year" men? These are some of the influences to which we may confidently look for an uplifting and dignifying of the gardeners' calling. The outlook grows hopeful.

Some park attractions of the week

The landscape presents nothing more beautiful in the parks and parkways of Boston at the present time than the dogwoods (*Cornus florida*) which Mr. Pettigrew has planted by the thousand along the borders of the woods. The pink variety is especially striking and is easily the finest of our spring flowering trees. Unfortunately it frequently fails to carry its flower buds through the winter and it is several years since we have had a display equal to that of the present week. The azalea plantations are beginning to show color, *Rhododendron Vaseyii* being already in full bloom with the ghents and nudiflora following closely. The evergreen rhododendrons have come through the winter carrying all their buds uninjured and will make a gorgeous show in about two weeks. The forsythias have been finer than ever before but they as well as most of the pyruses have already passed and the lilacs, *Loniceras*, *berberises* and early *viburnums* have taken their place as objects of interest. One of the prettiest of the uncommon things in the arboretum is *Cercis canadensis alba*. It is truly a beautiful tree. The *exochordas* have done poorly this season—a very common failing in this section which is much to be regretted for no spring flowering tree can be lovelier than a well-bloomed *exochorda*. At Swan Point Cemetery in Providence, R. I., they are usually to be seen at their best. Rugosas and other early roses are beginning to open their flowers. Thus the beauteous procession advances each day opening up some new object to admire. This is one of the great charms of these shrubbery plantations.

AFTER ADJOURNMENT.

Those of our readers who have had trouble with old-fashioned putty because it gets too hard or with soft putty which is apt to peel from the wood after a year or two, may like to try the following composition which J. B. Shurtleff, Jr., of Revere, Mass., tells us he has used with invariably good results. It is simply a quarter pound of beeswax to two quarts of oil, heated and mixed and applied with a putty bulb. Mr. Shurtleff has used this as a substitute for putty on hot bed sash and greenhouse roofs and finds it superior to anything else, after a trial of several years.

A correspondent of the *Gardeners' Chronicle*, in issue of April 28, has something to say in favor of ramie fibre as a material with a great future in the line of clothing, and instances its extensive use in China and South Africa as an article of wearing apparel. We shall not mention any names but have in mind an estimable gentleman in Washington who, a few years ago, became so enthusiastic a supporter of ramie culture for this purpose that he had a suit of clothing made from the home-grown product. It worked all right and was greatly admired by the frequenters of Pennsylvania Avenue until one day a sudden rain storm came up and then trouble began, for the material when wet proved to be not only clinging but transparent and our friend was forced to take refuge in a nearby shop and send home for a suit of clothes. In China and South Africa this trifling peculiarity of ramie wouldn't count.

We have been reading with considerable interest and not a little amusement the witty description of a visit to the Royal Academy by a correspondent of the *Gardeners' Chronicle*, issue of May 12. From our knowledge of the fearful and wonderful creations of some of the flower painters and engravers on this side of the Atlantic we are inclined to utter a responsive amen to the incisive criticisms our contemporary makes concerning the pictures on exhibition. We clip a few extracts:

It is far better to exhibit no flower, fruit or garden subjects than to deface the walls with crude suggestions or "impressions" of nothing. "Impressions" are sometimes very well from masters of art, but we are nowadays far too often favored with "impressions" from ladies and gentlemen who have no foundation knowledge and so have nothing to impress.

441. Autumn Garden, Bavaria (Orrin Peck): An unusually large picture, with large, life-size cabbages in the foreground; it is easier to plant cabbages than Lilies.

741. The Blessing of the Plants, Santa Barbara, California (Orrin Peck): This represents monks sprinkling pot-flowers of unknown species with holy water. The ecclesiastic who holds the holy water is kneeling.

756. Her First Communion (Mary F. Raphael): This represents a girl clad in white, with her face veiled; the veil, like darkness or fog, comes in conveniently. The maid is surrounded with what are possibly meant for white Lilies; we are uncertain.

485. Fleur-de-Lis, a lady in white (G. A. Storey, A.): The lady is accompanied by Lilies and Begonias of forms unknown to the writer. Similar unusual varieties of plants occur in the same artist's 493, Leda.

566. Stocks (John Gray): We have never seen stocks like these either in form or color.

There are flowers in 395, The Market Place (Edith J. Sealy), but one cannot properly see the picture, which is close

SPRAYING DEMONSTRATION AT AMHERST.



The spraying demonstration at the Massachusetts Agricultural College on May 17, was a success, notwithstanding the rain which set in at starting time. The following program was carried out:

1. Traction sprayers.
2. Power sprayers.
3. Hand sprayers (barrel pumps).
4. Bordeaux mixture (making).
5. Lime-sulphur solution (making).

There was a good attendance.

to the floor, without doubling one's self up like an acrobat, and this feat we were unable to accomplish.

In 267, Mand, the Daughter of George Coats, Esq., visitors may note how Mr. Sargent polishes off Roses; there are two white Roses on the lady's neck, and a third elsewhere.

OBITUARY.

George H. Rowden died suddenly at his home in Wallingford, Conn., on the evening of May 17. His death was due to heart disease.

Mr. Rowden was born in Salisbury, England, October 10, 1840, where he attended school until he was fourteen. He left school at that age to learn flour milling in Amport, serving at that trade until he was nineteen.

During the next three years he served an apprenticeship as florist and gardener on the estate of Earl Radnor at Coleshill, under Henry Eckford, of sweet pea fame, and in the nurseries in Upper Clapton on the border of London. For two years following he had charge of the gardens of Colonel Boxendale in Wetstone. The next three years he had charge of the gardens of Sir Granville Smith in Ashton court, near Bristol.

In March, 1867, he came to America and went to Torrington, Connecticut, where he did landscape gardening for one year. In 1868 he went to work for Edward Miller, of Meriden, laying out and grading the extensive grounds of the latter on South Broad street in that city. He remained in the employ of Mr. Miller for two years and then moved to Chambersburg, Penn., where he was manager of the Chambersburg nurseries for three years. At the conclusion of his labors there he returned to Meriden to resume work for Mr. Miller, where he remained for eleven years, making a total service of thirteen years in the employ of Mr. Miller.

In May, 1884, he moved to Walling-

ford and in partnership with William Woodley, of Meriden, bought the greenhouses that were owned at that time by Henry Wallace on Academy street. At the end of about three years Mr. Royden bought out the interests of Mr. Woodley.

He was a member of the Society of American Florists and at one time was its state vice-president. He is survived by a widow, three daughters, and a son.

A well-known British nurseryman passed away on May 7th in the person of Mr. John Barron, head of the firm of Messrs. William Barron and Son, of the Elvaston Nurseries, Borrowash, Derbyshire. The firm which was founded by the deceased's father, had been in existence for over half a century. Besides having a nursery of about ninety acres, the firm have a very high reputation as landscape gardeners. The founder of the firm invented a machine for transplanting trees, and this has been extensively used in different parts of the country. Deceased was in partnership with his son Mr. W. Barron, who had charge of the landscape department. At the interment, a large attendance of residents testified to the high esteem in which deceased was held. W. H. A.

The death of William Schray on May 15, removes from the ranks one of the oldest florists in St. Louis. Mr. Schray was 72 years old. He was a member of the Society of American Florists.

William R. Watson of Pittsburg, Pa., who for many years has spent the winter in the South, died at El Paso, Texas, aged 38. A mother and sister survive him.

A. J. Ross of the Ross Seed Company died at Louisville Ky., on May 8.

NEWS OF THE CLUBS AND SOCIETIES.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Outdoor Exhibition at Dayton.

Growers and introducers of novelties in cannas, asters, geraniums, petunias, roses, and other tender or hardy garden material should not underestimate the value of the opportunity afforded in the plans as formulated by the executive board of the S. A. F. for displaying and introducing to the public such meritorious new things as they may have to offer.

The county fair follows directly after the close of the S. A. F. convention and the large local attendance should and doubtless will bring good business to the exhibitors. One prominent grower who has taken a big space states that the proposition promises better than the planting exhibit at the World's Fair as a business getter. The catalogue mail trade houses cannot afford to overlook this opportunity.

Planting is now going on under the supervision of skilled gardeners and all exhibits will have the best of care and full protection throughout the summer. The charge for space is merely nominal.

For rates and assignment address

H. M. ALTICK, Dayton, O.,
or W. M. J. STEWART, Secretary,
11 Hamilton Place, Boston, Mass.

ELBERON HORTICULTURAL SOCIETY.

At the meeting of this society on May 7 William H. Waitt tendered his resignation as secretary on account of his removal from Elberon, and George Masson was elected to fill the vacancy. A vote of thanks was tendered Mr. Waitt for his faithful service.

The exhibits of the evening were gladioli by H. Hall; antirrhinums by A. Bauer; flowering shrubs by A. Grieb; lettuce by Fred Dettlinger. A

committee was appointed to attend to the planting of flower borders around the Oakhurst school. The exhibit for the next meeting in June will be roses and strawberries.

HORTICULTURAL SOCIETY OF NEW YORK.

The Horticultural Society of New York proposes to hold in the early Fall of 1907, an International Conference on Hardiness and Acclimatization, if there is sufficient general interest evinced to warrant organizing such a gathering. The questions proposed are of supreme importance to horticulturists, and there is very little, if any, codified matter available in this country. The proceedings of the conference would form the substance of a volume of Memoirs of this Society, to be a companion to the Proceedings of the International Conference on Plant Breeding held in 1902.

Any assistance suggesting lines for discussion, etc., will be welcomed by the secretary, Leonard Barron, 1269 Broadway, New York.

COLUMBUS FLORISTS' CLUB.

During the past two months our meetings have not been as regular or as well attended as they should have been for the good of the club. It is almost impossible to have it otherwise during the busy season—as we all have to work both day and night. Last Tuesday the regular meeting for May took place in our rooms in Iroquois Hall with a fair attendance; President Stephens and secretary McKellar were on hand and in charge of the meeting. Much regular business was transacted. Amongst other matters the committee having charge of the penny packets of flower and vegetable seeds for the public school children, reported that \$50.00 will remain as a starter for this work for 1907, after all bills have been paid. It is a good work and growing. The next meeting will be Tuesday evening, June 5.

THE AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

The annual meeting will be held at Washington, D. C., June 12, 13, 14, 1906, headquarters to be announced later.

The program is as follows: June 12, 10 A. M., Opening session; 1 P. M., Field work; 3 P. M., Business meeting, papers and discussion.

June 13, 9 A. M., Field work; 3 P. M., Business meeting, papers and discussion.

June 14, 9 A. M., Field work.

The papers to be read are by Messrs. Pettigrew, Dawson, Brown and Parker.

If a reasonable number of members can remain, a visit to the Baltimore Park System may be arranged for June 15. A more complete program will be mailed early in June.

J. W. DUNCAN,
Secretary-Treasurer.

PEONY NIGHT AT PHILADELPHIA.

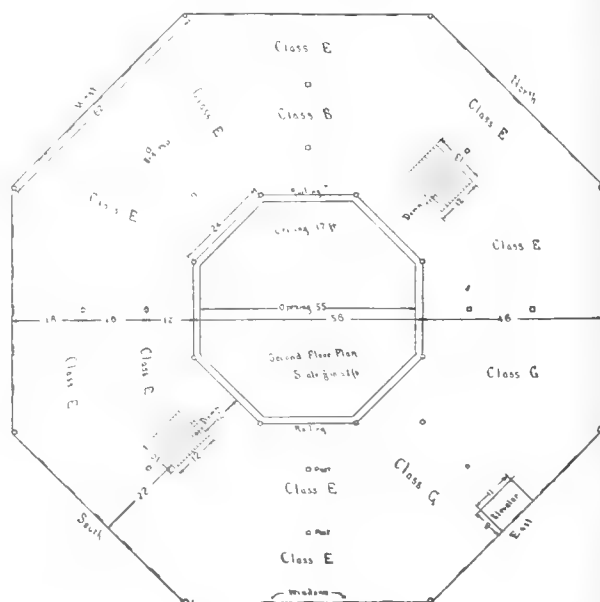
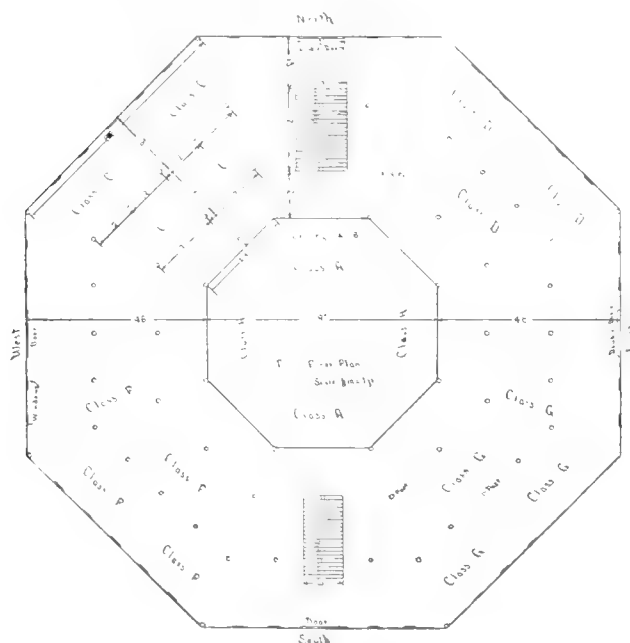
The next regular monthly meeting of the Florists' Club of Philadelphia will be held Tuesday evening, June 5, 1906, when there will be an exhibition of peonies. Everybody is invited to send flowers for this event. All intending exhibitors will please forward flowers, express charges prepaid, in care of Mr. David Rust, Horticultural Hall, Broad Street, above Spruce, Philadelphia, Pa.

C. Betscher, of Canal Dover; Edward Swayne, of Wawaset, and Henry A. Dreer, of Riverton, have promised, among others, to send a good exhibit of named varieties, so that the members can have an opportunity of sizing up the good and bad points of the different sorts.

EDWIN LONSDALE, Sec.

AMERICAN PEONY SOCIETY.

The date of the annual meeting and exhibition of this society at Boston, has been changed to Friday and Saturday, June 15 and 16.



DIAGRAMS OF EXHIBITION HALL FOR DAYTON CONVENTION OF S. A. F., AUGUST 21-24, 1906.

WHY NOT BE UP TO DATE

and grow a few Orchids? You will have to sooner or later and might as well start now at the beginning of the growing season,

AND GET RETURNS NEXT FALL.

We have received a second shipment of **CATTLEYA TRIANAE** which our friends tell us is THE FINEST THEY EVER SAW.

Also, a good importation of **C. LABIATA.**

WILL ARRIVE IN ONE WEEK'S TIME,

CATTLEYA GIGAS, HARDYANA TYPE, C. MENDELLI AND C. SCHROEDERAE.

Write for our Price List before buying elsewhere. It will interest you.

CARRILLO & BALDWIN, Orchid Growers and Importers, Secaucus, N. J.

DETROIT FLORISTS' CLUB.

The Detroit Florists' held their regular meeting on the 17th, many vacant chairs being present. The convention at Dayton was discussed and a joyful time is being planned. There seems to be quite a number intending to go on this trip and a special coach is being talked of.

A sample string of the new *Asparagus plumosus* *Crawshawii* grown by James Crawshaw of Providence, R. I., and sent to the club by him, was pronounced a very useful novelty. A pleasant evening is promised those who attend the next meeting. Besides the discussion of Decoration Day business there will be a smoker.

CLUB AND SOCIETY NOTES.

At the June meeting of the New Jersey Horticultural Society Harry O. May will be the speaker, his theme, "Roses and Rose Growers."

The Utica Florists' Club (N. Y.), at their meeting on May 2, elected the following officers: President, F. J. Baker; vice-president, Seward Hanks, Iliou; treasurer, C. F. Seitzer; secretary, J. C. Spencer.

PERSONAL.

Harry Pickwith of Detroit, plans a trip to Europe the latter part of June and will spend about five weeks on the other side.

President Dilger of the Detroit Florists' Club, suffers from an injury to his leg, the result of an automobile accident.

Mr. and Mrs. Hugh Dickson of Belfast, Ireland, are due to arrive on this side of the water, June 10th. While in Philadelphia they will be the guests of W. Atlee Burpee and Alexander B. Scott.

Orchids

Orchids

Now is the time to buy the following imported orchids

CATTLEYA MOSSIAE. We have nearly 5,000 plants on hand in superb condition. These if potted now will produce a crop of flowers next Spring that will pay for the total outlay and leave a margin besides.

C. PERCIVALIANA. If potted now will flower in December this year, just when orchid flowers are scarce and in great demand.

We have also **CATTLEYA GIGAS, C. Speciosissima, C. Eldorado, C. Superba, etc., etc.,** all in large quantities, and they must be sold.

WRITE FOR PRICES

LAGER & HURRELL, Summit, N. J.

BUSINESS CHANGES.

Weiland & Olinger, formerly located at Cincinnati, have opened a store at 310 Sixth street, Louisville, Ky., which will be devoted to wholesale business.

John J. Perkins, Jr., has gone into partnership with his father at 115 West 30th street, New York, and the business will be done hereafter in the name of John J. Perkins & Son.

Some large landscape gardening contracts have recently been executed, at Columbus, Ohio, by Thomas Meehan & Sons, Inc., of Philadelphia, Pa. Leonard Morse has been in charge of the work.

The Howland greenhouses at Holeyoke, Mass., which have been under lease by Fields & Sinclair for some

months, have been bought outright by Mr. Sinclair. Mr. Fields will continue to be associated with Mr. Sinclair in the business and M. L. Graves will be retained as manager. The property includes about 31,000 feet of land and is considered a good investment. The Prospect street greenhouses in Northampton, Mass., are also occupied by this enterprising firm.

George W. Cable, who is president of the Home Culture Club Association of Northampton, Mass., announced at the meeting of the board of directors of the association that Andrew Carnegie has offered the association \$8,500 to establish a "garden under glass," provided \$1,000 is raised for the care of the "garden" annually.

PEONIES

THE COTTAGE GARDENS CO.
QUEENS, L. I.

Have the LARGEST, FINEST and MOST
COMPLETE COLLECTION of

PEONIES IN THE WORLD.

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Horticulture's Advertisers can
supply you. Consult the

Buyers' Directory and
Ready Reference Guide

on Pages **690 to 693**

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Sole Importers and Proprietors of "ROYAL CLUSTERS"
the Celebrated Bermuda Harrisii Lily

Finest, Surest and Most Prolific Flowering Lily in the World
"NONE BETTER"

NEWS NOTES.

Reinhart W. Zabel of Hoboken, N. J., has purchased the business of John Dingwall of Albany, N. Y.

A. Jablonsky intends to build several new houses at Olivette, Mo., and centralize his interests there.

H. Huth, formerly superintendent of St. Stephen's Cemetery, Louisville, Ky., will open a store at the East End.

The Rebstock greenhouses on Elmwood Avenue, Buffalo, N. Y., have been purchased by S. A. Anderson of that city.

The city of Columbus, Ohio, has appropriated the sum of \$5000 to hire a park expert, who shall outline a plan for the beautification of our parks.

At the green auction sales of tulips in the bulb fields of Holland this spring, high prices have been realized especially in the standard varieties of self colors.

Charles H. Curtis has been appointed to the position of secretary of the National Sweet Pea Society of England, succeeding Horace J. Wright who has filled this important position with fidelity and success for the past four years.

Geraniums, 4 in.	Per 100	\$8.00
" Doyle, Jean Viaud, Nutt,		
Poitevine, A. Ricard, 3 in.	4.00	
" A Ricard, Nutt, 3 in.	5.00	
Begonia Vernon, 2 1-2 in.	2.00	
Salvia { 4 in., \$6 per 100; 3 in., \$4 per		
100; 2 1-2 in., \$2 per 100		
Vinca var., 3 1-2 in.	\$5.00	
Glechoma, 3 in.	4.00	
Salleroi Geraniums, 3 in.	4.00	
Verbenas, 2 1-2 in.	2.00	

Larchmont Nurseries
LARCHMONT, N. Y.

FOR RETAIL TRADE

200 varieties of Dahlias for sale, including Cactus Show, Fancy, Decorative and Pompon. Also 50 varieties to wholesale just as dug including all classes.

CEO. H. WALKER

DAHLIA GROWER N. Dighton, Mass.

MARIE LOUISE VIOLETS

Strong, Sand Rooted Cuttings, clean and free from disease. February struck, \$2.00 per 100, \$15.00 per 1000.

BEDDING PLANTS

Sweet Alyssum, Double Dwarf, stocky plants in bloom, \$2.00 per 100. Single Petunias, finely mixed, strong and stocky, \$1.50 per 100. Other bedding plants ready May 20. Cash with Order.

C. LAWRITZEN, Box 261, Rhinebeck, N. Y.

PIONEER GUARANTEED NURSERY STOCK AT WHOLESALE PRICES.

All stock guaranteed disease free and true to name.

Hart Pioneer Stock is pure bred and produces heavy crops.

Value received for every dollar sent us. No Agent's Commission.
WRITE FOR COMPLETE PRICE LIST. WE WILL SAVE YOU MONEY.

HART PIONEER NURSERIES, Established 1865. Fort Scott, Kan.

John Waterer & Sons, Ld. AMERICAN NURSERY BAGSHOT, ENGLAND

have the finest stock of recognized Hardy Rhododendrons, Azaleas, Andromedas, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

John Waterer & Sons are the great exhibitors of Rhododendrons in London.

TELEGRAPH GERANIUM

The beautiful scarlet cerise, strong growing, free blooming geranium — Telegraph. Bed out the Telegraph, you will be pleased with its growing

Strong 3 inch stock in bud and bloom, \$6.00 per 100

Cash with order please.

THOS. DEVOY'S SON, Poughkeepsie, N. Y.

100,000 Box for Edging

No. 1, \$35.00 per 1000

No. 2, \$25.00 per 1000

Just to Hand FINE IMPORTATION of
Bay Trees, Box Trees
Standards and Pyramids
Euonymus, Evergreens
NEW PRICE LIST ON APPLICATION

J. H. TROY, New Rochelle, N. Y.

SHASTA DAISIES

Burbank's Shasta Daisy	12	100
Burbank's Shasta Daisy, Alaska	\$.75	\$5.00
	1.50	10.00

Strong field grown plants with many crowns. Cash with order.

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Landscape Gardener and
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Estates Large and Small Laid Out, Graded and Planted
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TO BUYERS

Patronize our advertisers, they will treat you right

PHILADELPHIA NOTES.

Edgar T. Scott of Landsdowne is building a new rose house in addition to the already extensive range of glass on the estate. Arthur Mallon is now the gardener succeeding Joseph McGregor, retired.

Paul Berkowitz of the H. Bayersdorfer Company is much pleased with the interest taken all over the country in the new "Twentieth Century" plant stand which his firm is now putting on the market. This is really a marvel of adaptability. We predict that inside of a very short time every first-class florist in the country will have it in use.

We hear that Edwin Lonsdale has been commissioned to go to Erie in an advisory capacity in landscape work on the Soldier's Home at Erie. This is a development of the good work Mr. Lonsdale has been doing at Girard College the past two years. Of course this is only a side issue and he will return to his regular duties about the middle of June.

FIRE RECORD.

The Limprecht Florist Supply Co. of New York City, were the victims of a fire on May 12, in which they lost severely but are well covered by insurance.

The persistent barking of his little dog aroused John Roper of Madison, N. J., from his slumbers in the early morning to find his greenhouses in flames. His house is attached to the greenhouses. The damage is heavy and it is stated there is no insurance.

PUBLICATIONS RECEIVED.

The Report of the Park Commissioners of Haverhill, Mass., contains a fine portrait of the late Dudley Porter, chairman of the board of park commissioners.

The Woodford greenhouses at Plainville, Conn., have been sold to Plantsville buyers.

Thorburn's Bulbs

Lilium Harrisii Lilium Longiflorum

and all other BULBS for FLORISTS.

Send us your requirements for special prices.

CYCAS REVOLUTA STEMS just arrived from Japan. Sizes and prices on application.

J. M. THORBURN & CO.
36 Cortlandt St., New York

James Vick's Sons SEEDSMEN Rochester, N. Y.

PRIZE PRIMULA SEEDS
SOW NOW.

Will make splendid plants in bloom for FALL sales.

	Trade Pkt.	Trade Pkt.
Primula sinensis, pure White,	\$0.60	\$1.00
" " Brilliant Red,	.60	1.00
" " Holborn Blue,	.60	1.00
" " Crimson,	.60	1.00
" " Pink,	.60	1.00
" " Michell's	.60	1.00

European Mixture, .60 1.00
This is the finest mixture procurable composed of the choicest separate colors only.

Primula obconica, Red,	\$0.30
" " Rose or Pink,	.30
" " pure White,	.30
" " Hybrida Mixed Colors,	.40
" " Fimbriata Choice Mix'd,	.50

NEW CROP Pansy Seed GIANT PRIZE STRAIN

Azure Blue, Dark Blue, Emperor William, Lord Beaconsfield, White and Yellow. Each 40c per trade pkt., per oz., \$2.00.

Michell's Giant Exhibition

A mixture which cannot be excelled for size of bloom and heavy texture. Trade pkt., 50c. 75c per 1/8 oz., per oz., \$5.00.

For Seasonable Seeds and Supplies please refer to our Wholesale List mailed free on request to all florists.

HENRY F. MICHELL CO.

Seed Importers and Growers
1018 Market St., Philadelphia, Pa.

Garman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse.
Nonpoisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. \$1.50 per gallon. Also in quarts, half gallons and in bulk. Send for circulars.

PERFECTION CHEMICAL CO.,
Flushing, N. Y.



SAVE THE BLOOMS!
NIKOTEEN
DOES NOT INJURE SENSITIVE PLANTS. USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT.
200 POUNDS TOBACCO IN ONE PINT NIKOTEEN.

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COLUMBIA, ALASKA, BOHEMIA &
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Fresh Spawn Always on hand.
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HELLER'S MICE-PROOF SEED CASES.



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Blue List of Wholesale Prices mailed only to those who plant for profit.

GLADIOLI Forcing Varieties
FOR PROMPT SHIPMENT
JAPAN LILIES SEEDS FOR FLORISTS
Joseph Breck & Sons Corp.
Seeds and Agricultural Hardware
47-54 NO. MARKET ST., BOSTON, MASS.

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**IT IS THE PLANT STAND YOU WILL
EVENTUALLY BUY**

THE TWENTIETH CENTURY



Showing how plant can be placed at any height or angle on the new 20th century adjustable plant stand.



Showing the new 20th century adjustable plant stand in its natural position ready for use.



Showing the new 20th century adjustable plant stand folded in compact form for easy and economical shipment.

A new adjustable plant stand, elegant in appearance and absolutely adjustable to any height or angle that may be required in decorations. The stem can be raised out of the hollow steel tube to any required height up to double; the base of the stem is on roller bearings and can be turned around to any point by a touch of the finger; the legs have rubber feet and cannot scratch the most elegant floor; the top or holder is movable and can be set to any angle desirable and can be adjusted to any size pot up to 12 inches in diameter.

We have no hesitation in pronouncing this the best stand on the market today and one which every florist who has decorative work must have. True, it is not cheap, but it is reasonable in price and will pay for itself twice over in short order.

Send for a sample when you place your next order.

\$1.50 each; \$17.00 per dozen

COMIC SUBJECTS.

Grass growing heads, pigs and bears. These still continue popular. If you have none in stock you lack the latest and best selling novelty of the day. Interests and amuses customers, and creates business.

H. BAYERSDORFER & CO. THE FLORISTS' SUPPLY
HOUSE OF AMERICA
56 North 4th Street, PHILA.

AN OLD PROBLEM IN A NEW DRESS.

What is to be done with the Greek fakir? Are the florists going to continue to allow foreigners, ignorant of the details of their trade, to undersell cut flowers, and thus rob them of their rightful customers? They have already established a precedence in the confectionery business, and are now handling cut flowers and plants in large quantities, both in stores and on the streets. If these gentlemen from sunny Greece would buy at regular market prices and sell at regular retail prices, they might be accepted in good standing, but it is a well-known fact that the methods which they employ are anything but business-like, and are bound to hurt trade in one way or another.

It is next to impossible to obtain any accommodation whatever from these people, and any kind of a deal with them is sure to be a "skin game" of some sort. We know that ours is not the only city, nor are we the only florists who are annoyed by this nuisance (we know, personally, of immense profits on the streets of a large city five hundred miles from here—profits rightfully belonging to the experienced and intelligent florist), but we have the interests of the trade at heart and are anxious to do what we can to help it along.

Are we going to stand quietly by and watch these swarthy foreigners take a goodly piece out of our business, or are we going to close in on them and make them do as Americans do while they are on American soil, and handling American products?

GRACE HOOVER.

Minneapolis.

NEWS NOTES.

F. S. Pearson of Great Barrington, Mass., contemplates building several houses at Edgewood Farm for the cultivation of grapes and peaches.

The Holly-Castle Company have extended their business to include piping, heating, remodeling and building greenhouses. They move on June 1 from 49 Federal street to more commodious offices at 170 Summer street, Boston.

James L. Montgomery, superintendent of parks of Cambridge, Mass., has been removed by the park commissioners. No cause other than political is given. John F. Donnelly, for many years assistant city forester, has been appointed acting superintendent.

David Andrews has disposed of his greenhouses near Plantsville, Ct., to Oleson & Lunden who will use them for their wholesale business and place them in charge of William Fischer. The Bristol street houses will be retained for their retail trade. Mr. Andrews expects to go to Vermont.

Up to the present time of writing the greenhouses heating firms in New York have their pipe fitters and helpers locked out, and there is no sign of a settlement in sight. William H. Lutton of Jersey City informs us that he is the only one that has signed the agreement and at present has quite a number of men employed. Among the heating contracts that Mr. Lutton has on hand is that of Mr. J. Stoppani's range at Bayport, Long Island.

NEW CROP **Bronze GALAX**

 **Special Price for May**
in 10,000 lots only \$5.00

NEW CROP **DAGGER FERNS, 1.50 per 1000**
Discount on Large Orders

NEW CROP **FANCY FERNS, 1.50 per 1000**
They are the Finest and Largest Ferns ever sold.

Bouquet Green, \$7.00 per 100 lbs. Bouquet Green Wreaths and Laurel Wreaths, all sizes and prices.

Laurel Festooning, extra fine and full, 4c, 5c and 6c per yard, and made fresh daily from the woods. Send for sample of our Laurel Wreaths for Memorial Day use, \$2.00 per doz.

Bronze and Green Galax, 75c per 1000. Discount on large orders.

Send Us Your Orders for Memorial Day Now
and you will get the best to be had and at rock-bottom prices.

Satisfaction guaranteed. No matter how large or small the order it will be filled promptly and with the best and freshest stock right from the woods.

Telegraph or telephone orders will receive immediate attention.

Telegraph Office, NEW SALEM, MASS. Long Distance Telephone Connection.

TELL US YOUR WANTS, WE WILL DO THE REST

CROWL FERN CO., MILLINGTON, MASS.

CAPE JESSAMINES

A very fragrant, white flower with dark green foliage, suitable for all decorations. We guarantee time and condition of arrivals. 75 cts. per 100, \$6.00 per 1000.

SEASON, MAY 15 to JUNE 15

ASA WRIGHT, - - - ALVIN, TEXAS

BEAVEN'S
FADELESS
SHEET MOSS
\$2.50 per case

Send for circular and sample.

LYRATA
a lasting evergreen, takes the place of wild smilax for June decorations. IT'S well worth trying.

DO IT NOW ?

E. A. BEAVEN
EVERGREEN, ALA.

Consult the Buyers' Directory and Ready Reference Guide on pages 690, 691, 692, 693.

BOSTON FLORIST LETTER CO.
Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 1. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. MCCARTHY, Manager
66 Pearl Street. BOSTON, MASS.

Our Mr. Jos. Stern has
CONE TO EUROPE
to buy your florist supplies and novelties for the autumn. Buy of the enterprising florist supply house

J. STERN & CO.
1928 GERMANTOWN AVE., PHILADELPHIA, PA.



WASHINGTON,
D. C.

GUDE'S

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FLORISTS' SUPPLIES

BEST LINE IN THE COUNTRY

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO May 21		ST. LOUIS May 22		PHILA. May 22		BOSTON May 24	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	25.00	to 35.00	15.00	to 20.00	15.00	to 20.00	8.00	to 20.00
" Extra.....	10.00	to 24.00	10.00	to 12.00	10.00	to 12.00	6.00	to 8.00
" No. 1.....	6.00	to 15.00	6.00	to 8.00	6.00	to 8.00	4.00	to 6.00
" Lower grades.....	2.00	to 4.00	3.00	to 4.00	1.00	to 5.00	.50	to 2.00
Bride & 'Maid—Fan. & Sp.	6.00	to 10.00	6.00	to 8.00	6.00	to 8.00	5.00	to 6.00
" Extra.....	4.00	to 6.00	2.00	to 3.00	4.00	to 6.00	3.00	to 4.00
" No. 1 and Lower gr.	2.00	to 3.00	1.00	to 2.00	1.00	to 3.00	.35	to 1.00
Liberty, Fancy.....	8.00	to 10.00	.....	to 12.00	12.00	to 15.00	6.00	to 8.00
" Ordinary.....	4.00	to 6.00	.....	to 2.00	2.00	to 8.00	.50	to 3.00
Richmond, Fancy.....	8.00	to 10.00	10.00	to 12.50	12.00	to 15.00	6.00	to 10.00
" Ordinary.....	4.00	to 6.00	4.00	to 6.00	2.00	to 8.00	.50	to 3.00
Golden Gate, Fancy.....	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00	3.00	to 5.00
" Ordinary.....	3.00	to 4.00	1.00	to 3.00	1.00	to 5.00	.50	to 1.00
Chatenay, Fancy.....	6.00	to 10.00	4.00	to 6.00	6.00	to 8.00	3.00	to 5.00
" Ordinary.....	4.00	to 6.00	1.00	to 3.00	1.00	to 5.00	.50	to 1.00
CARNATIONS								
Fancy.....	1.50	to 4.00	1.50	to 2.00	2.00	to 3.00	1.00	to 1.50
Ordinary.....	.75	to 1.00	.75	to 1.00	1.00	to 2.00	.50	to .75
MISCELLANEOUS								
Cattleyas.....	6.00	to 12.00	6.00	to 10.00	50.00	to 100.00	40.00	to 60.00
Lilies.....	6.00	to 12.00	6.00	to 10.00	6.00	to 10.00	5.00	to 8.00
Callas.....	6.00	to 12.00	6.00	to 10.00	6.00	to 10.00	5.00	to 8.00
Lily of the Valley.....	2.00	to 4.00	3.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Peonies.....	2.00	to 6.00	.....	to 1.00	.....	to 1.00	.....	to 8.00
Sweet Peas.....	.50	to 1.00	.25	to .50	.50	to 1.00	.15	to .50
Mignonette.....	.....	to 1.00	1.00	to 2.00	1.00	to 2.00	.....	to 1.00
Adiantum Cuneatum.....	.50	to 1.00	.....	to 1.00	1.00	to 1.50	.75	to 1.00
" Croweanum.....	.....	to 1.00	.....	to 1.00	1.00	to 1.50	.....	to 1.50
Smilax.....	10.00	to 15.00	12.00	to 15.00	15.00	to 20.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	25.00	to 50.00	50.00	to 50.00	.....	to 50.00
" " & Sprenger bunches	35.00	to 50.00	25.00	to 50.00	50.00	to 50.00	20.00	to 35.00
Lilacs per 10 bunches ..	25.00	to 50.00	.....	to 50.00	.....	to 50.00	.....	to 50.00
Snapdragon.....	.....	to 50.00	.....	to 50.00	.....	to 50.00	.....	to 50.00

J.A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and
Carnations
A Specialty.....

WHOLESALE
GROWER of

CUT FLOWERS

CHOICE PEONIES IN QUANTITY FOR DECORATION DAY

SAMUEL S. PENNOCK

The Wholesale
Florist of

PHILADELPHIA

1608 to 1618 LUDLOW STREET. Store Closes at 8 p. m.

CUT FLOWER MARKET REPORTS

BOSTON This market is fairly flooded with flowers, for which there is absolutely no sale. Roses and carnations come in by the thousands, averaging excellent quality, with a fraction of mildewed ones among the stocks that have been overworked through the winter. Out of town buyers are inquiring for Decoration Day prices and are ready to place orders at cut rates, but hold off on quotations that touch on past records. For the present nothing is wanted by buyers, everyone being himself encumbered with more material than he can find a market for. It is a long time since the wholesale flower trade was so completely demoralized in Boston as it is at present. The warm weather of last week is partially responsible. Out-door lily of the valley is beginning to come in heavily.

BUFFALO The fine weather of the past week brought out the shoppers and many bargains were had in the line of cut flowers and plants. The department stores did a flourishing business selling roses in quantity and at low prices. Roses of ordinary quality have been hard to move at any price. It looked as if the coolers would have to be enlarged to hold the enormous supply that has been had the past month. Select Bridesmaids, Brides, Kaiserins, Liberties and Richmonds need little urging to make sales. Prime Beauties are in good supply but at times the ice boxes are also filled to their capacity and consequently they are jobbed off far below the list price. Cool weather for a few days caused the carnation supply to shorten and prices held firm. Good demand was had on lily of the valley and sweet peas, especially the latter in colors of lavender and white. Southern peonies arriving in good shape were also on the list and sold well in colors of pink and white. Harrisii lilies, and callas slacked up considerable and have again moved up to a fair price with demand good. Green goods are in better supply, demand moderate. When the schools close the summer exodus will become more noticeable, and until that time there will be a continuous program of social affairs for the bride and graduate. The outlook for Memorial Day seems bright and a record breaking business is expected.

CHICAGO The business for this week, while not moving with big strides, has been going at a rather steady pace. Stock in all grades is abundant. Roses and carnations have as good color as might be expected for this time of the year. Lilies are to be seen here and there, some large and some small. But the demand for the present, is more for outdoor stock, sweet peas,

lilacs, spirea and snowballs being especially popular. The color and quality in the above mentioned stock is very good, sweet peas and lilacs particularly, and the prices meet with the approval of everyone. A good supply of greenings is to be had from all the wholesalers.

COLUMBUS Since the weather has come warm again, trade has resumed a

good volume, but nothing like what it was before the freeze of May 6 to 9. Of course all kinds of bedding plants are now selling in good quantities, but that, at this season is expected; trade is not what it would have been had the month not been interrupted by the unseasonable cold weather. Since the freeze customers have been shy and ordered very carefully; we shall sell a lot of plants yet, and Decoration Day trade will be heavy, but the snap and dash of the season's business is over. There has been lively competition in bedding plants; prices have settled to the following: Geraniums \$1.00; coleus 40 cents; salvias 60 cents; moonvines \$1.00; verbenas 50 cents; cannas \$1.00; asters 20 cents; and cosmos 40 cents a dozen. Wire hanging baskets are in good demand and when attractively filled with bright plants, vincas, and ferns, bring \$1.00 to \$3.00 each for 10 to 18 inch diameter sizes. The trade in cut flowers has held up well, all our florists having had a very good week; large quantities of outdoor stuff, such as snow balls, irises, etc., help out on school bouquets and other work where low prices must be made. The weather is now warm and settled, but we need rain badly indeed as it is getting very dry.

INDIANAPOLIS The market although still over loaded has taken on a brighter aspect and the trade in general feels more confident of a continuance of improving conditions. Goods of all classes are offered at prices which are very tempting to the retailers. The planting season is in full sway and from all indications bedding stock is plentiful. Appearances look well for Decoration Day trade which is one of the heaviest in the cut flower line in this vicinity.

LOUISVILLE The business of the past week has been rather disappointing, particularly in cut flowers. Carnations of good quality have been sufficient to meet all demands. There has been an abundance of first-class roses, but they have not moved freely. Paeonies and sweet peas found a ready sale. Despite the constant call for lilies there has been no lack of good stock. Other flowers are in good supply.

NEW YORK The market is very dull here this week. Carnations and roses are very plentiful and both these items are away below quoted market prices when it comes to actual sales of any size. Out-door lilac is finished and lily of the valley is nearly so. Carnot roses are in abundantly. No excitement here regarding Memorial Day.

PHILADELPHIA Trading was without any special feature last week and was in slightly decreased volume. Crops generally are showing the effects of the advancing season especially in Bride, Bridesmaid, Chatenay and Killarney roses. Beauty, Richmond and Liberty do not seem to suffer so much, and carnations are still coming in in pretty fair shape. The brightest and liveliest item, however, is the peony—red, white, rose, pink and variegated; big and little, fragrant in most cases, and all very desirable. Great quantities of them are being disposed of, and there will be plenty for all demands from now until after Memorial Day. The types made us report "dark blue and light lavender" peonies on this market last week. It was iris we were talking about. We have not quite got to the dark blue peony yet. Sweet peas and lily of the valley plentiful and good.

Tamarisk plumes are a pleasing novelty in the flower market at present.

TWIN CITIES There is not much to be said of the market this week. The dark, cold weather has retarded growth in the greenhouses, and has also hindered gardening to quite an extent. Roses and carnations are fine—better than they have been at higher prices. Pansies, sweet peas, gladioli and outdoor tulips and lilacs are plentiful and sell readily. Geraniums and all kinds of bedding stuff is prime, and the supply is great enough to fill all the demands of the Twin Cities and some to spare for our brothers not so richly supplied.

TO PHILADELPHIANS

The Niessen baseball team will play their first match on the afternoon of Memorial Day. It is understood that the opposing nine will be the Smith-Craig gang. A hot game is assured. Take it in.

The Florists' Club cricket team has been augmented during the past week by two good bowlers namely, Samuel Hammond and John H. Dodds. With W. C. Smith as wicket keeper and these two sterling athletes that helps some. Come on, you fielders. Send your names in. Address

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send your flowers to
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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending May 19 1906	First Half of Week beginning May 21 1906		Last Half of Week ending May 19 1906	First Half of Week beginning May 21 1906
Roses					
Am. Beauty and Edgeley fan and sp.	10.00 to 15.00	10.00 to 20.00	Carnations, Fancy.....	2.00 to 4.00	1.50 to 2.00
" extra.....	6.00 to 8.00	6.00 to 8.00	Carnations, Ordinary.....	1.00 to 2.00	1.00 to 1.50
" No. 1.....	3.00 to 5.00	3.00 to 5.00	Cattleyas.....	35.00 to 60.00	35.00 to 60.00
" Lower grades.....	1.00 to 2.00	.50 to 2.00	Lilies.....	4.00 to 6.00	3.00 to 5.00
Bride & 'Maid, fan and sp.....	4.00 to 6.00	4.00 to 6.00	Callas.....	4.00 to 6.00	4.00 to 6.00
" extra.....	2.00 to 3.00	2.00 to 3.00	Lily of the Valley.....	1.00 to 3.00	1.00 to 3.00
" No. 1 and lower grades.....	1.00 to 2.00	.50 to 1.00	Paeonies.....	4.00 to 8.00	4.00 to 8.00
Liberty, fancy.....	10.00 to 15.00	6.00 to 12.00	Sweet Peas.....	.15 to .75	.15 to .75
" ordinary.....	2.00 to 8.00	.50 to 4.00	Alphonette.....	.50 to 1.00	.50 to 1.00
Richmond, fancy.....	10.00 to 15.00	10.00 to 12.00	Adiantum Cuneatum.....	.50 to 1.00	.50 to 1.00
" ordinary.....	2.00 to 8.00	.50 to 8.00	" Crowcanum.....	1.00 to 1.50	1.00 to 1.50
Golden Gate, fancy.....	4.00 to 6.00	3.00 to 5.00	Smilax.....	10.00 to 15.00	10.00 to 15.00
" ordinary.....	1.00 to 3.00	.50 to 2.00	Asparagus Plumosus.....	20.00 to 50.00	20.00 to 25.00
Chenay, fancy.....	4.00 to 6.00	3.00 to 5.00	" & Sprengeri, bunches	10.00 to 25.00	10.00 to 50.00
" ordinary.....	1.00 to 3.00	.50 to 2.00	Snapdragon.....	..... to .....	..... to

ORCHIDS AT ALL SEASONS
WM. STUART ALLEN CO.
Commission Merchants in Cut Flowers
53 WEST 28TH STREET, NEW YORK
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Fresh cut Palmetto & Cycas Palm Leaves, Galax, Lecothe, Ferns and Mosses. All Decorating Evergreens.

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and JUNE WEDDINGS
ARE COMING**

YOU need not go outside
the pages of Horticulture
to find where to get
the best flowers and the
best florists' supplies in
the country.

**N. F. MCCARTHY
& CO.**

84 Hawley Street, BOSTON

See their advertisement
on Page 670 this issue

Headquarters in Western New York

FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.

BUFFALO, N. Y.

Give us a trial.

We can please you.

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

WHOLESALE FLOWER MARKETS. — PER 100. TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	May 22		May 22		May 21		May 23	
ROSES								
Am. Beauty and Edgely, fan and sp.	20.00	to 25.00	20.00	to 30.00	20.00	to 25.00	20.00	to 25.00
" extra.....	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	12.00	to 15.00
" No. 1.....	10.00	to 12.50	10.00	to 15.00	10.00	to 15.00	6.00	to 8.00
" Lower grades.....	5.00	to 8.00	5.00	to 10.00	3.00	to 10.00	.....	to 4.00
Bride and Maid, fan. and sp.....	.....	to 8.00	6.00	to 8.00	.....	to 8.00	.....	to 8.00
" extra.....	5.00	to 6.00	4.00	to 6.00	5.00	to 6.00	.....	to 6.00
" No. 1 and Lower grades.....	2.00	to 4.00	3.00	to 4.00	3.00	to 5.00	2.00	to 4.00
Liberty, fancy.....	.....	to 8.00	6.00	to 8.00	8.00	to 10.00	.....	to 10.00
" Ordinary.....	3.00	to 5.00	4.00	to 6.00	3.00	to 5.00	.....	to 5.00
Richmond, Fancy.....	.....	to 4.00	4.00	to 6.00	8.00	to 12.00	8.00	to 12.00
" Ordinary.....	.....	to 3.00	3.00	to 4.00	3.00	to 5.00	4.00	to 6.00
Golden Gate, Fancy.....	.....	to 6.00	.....	to 6.00	5.00	to 6.00	.....	to 6.00
" Ordinary.....	3.00	to 5.00	3.00	to 4.00	3.00	to 5.00	.....	to 5.00
Chatenay, Fancy.....	.....	to 6.00	6.00	to 8.00	8.00	to 10.00	8.00	to 10.00
" Ordinary.....	.....	to 4.00	4.00	to 6.00	4.00	to 8.00	4.00	to 6.00
CARNATIONS								
Fancy.....	.....	to 3.00	2.00	to 3.00	2.50	to 3.00	.....	to 3.00
Ordinary.....	1.00	to 2.00	1.50	to 2.00	1.50	to 2.00	1.00	to 2.00
MISCELLANEOUS								
Cattleyas.....	.....	to 8.00	.....	to 12.00	.....	to 8.00	.....	to 12.00
Lilies.....	8.00	to 10.00	12.00	to 15.00	8.00	to 12.00	8.00	to 12.00
Callas.....	6.00	to 8.00	.....	to 12.50	6.00	to 10.00	6.00	to 10.00
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Paeonies.....	3.00	to 5.00	.....	to 5.00	.....	to 5.00	.....	to 5.00
Sweet Peas.....	.35	to .50	.60	to .75	.30	to .75	.50	to 1.00
Mignonette.....	.....	to 1.00	.....	to 1.00	1.00	to 3.00	.....	to 1.00
Adiantum Cuneatum.....	.....	to .50	.....	to .50	.....	to 1.00	.75	to 1.00
" Croweanum.....	.....	to 1.25	.....	to 1.25	1.25	to 1.50	.....	to 1.25
Smilax.....	12.50	to 15.00	.....	to 12.50	15.00	to 20.00	20.00	to 25.00
Asparagus Plumosus, strings.....	.....	to 50.00	25.00	to 40.00	40.00	to 50.00	30.00	to 50.00
" " & Sprenger, bunches.....	.....	to 35.00	20.00	to 40.00	25.00	to 50.00	40.00	to 50.00
Lilacs per 100 bunches.....	.....	to 5.00	.....	to 5.00	.....	to 5.00	.....	to 5.00
Snapdragon.....	.....	to 5.00	.....	to 5.00	.....	to 5.00	.....	to 5.00

New Crop of Hardy Cut Dagger and Fancy Ferns, \$2.00 per 1000 MEMORIAL DAY



Brilliant Bronze and Green Galax, \$1.00 per 1000. 10,000 LOTS, \$7.50

BOUQUET GREEN.....\$7.00 per 100 lbs.
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BRANCH LAUREL.....50c. per bunch

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ALTERNANTHERAS.

Alternantheras, red and yellow, 2-in., \$2.00 100; rooted cuttings, 50c. 100. \$4.00 1000. Brilliantissima, 2-in., \$2.50 100; rooted cuttings, 60c. 100. \$5.00 1000. Davis Bros., Morrison, Ill.

ASPARAGUS.

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Asparagus Sprengeri, 2 1-2-in., \$2.25 per 100. Otto Bourdy, Lowell, Mass.

Asparagus Plumosa, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kastling, 385 Ellicott St., Buffalo, N. Y.

Asparagus Sprengeri, from flats, \$5.00 per 1000. J. F. Allen, Orlando, Fla.

Asparagus plumosus nanus seed. Clean, fresh seed, \$1.25 per 1000. J. F. Allen, Orlando, Fla.

Asparagus Sprengeri Plants out of bench large clumps planted last June out of 3 in. pots, \$8 and \$10 per 100, by James Crawshaw, Providence, R. I.

ASTERS.

Asters, Transp., Queen of the Market and Carlson's, in white, rose pink, lavender, 50c. per 100 by mail; \$3.00 per 1000 by express. J. W. Dunford, Clayton, Mo.

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BOG PLANTS.

Bog plants, including Dionaea muscipula, Sarracenia flava, purpurea, rubra, etc. Write for prices. James M. Lamb, Fayetteville, N. C.

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CANNAS.

A. T. Boddington, 342 W. 14th St., N. Y.
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Canna Alemannia, dry or started roots, \$2.00 per 100. J. H. Krone, Jr., Fort Smith, Ark.

10,000 fine potted stock ready to plant. 20 best sorts. List free. Benjamin Connell, West Grove, Pa.

Hermann Schoenfeld, 86th & Crothers Aves., Phila., Pa.

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Chicago Carnation Co., Joliet, Ill.
Rooted Cuttings.

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Carnations, from soil, Norway, \$9 per 1000. Last call. J. W. Dunford, Clayton, Mo.

CENTURY PLANTS.

Agave Americana (Century Plant) from 2 1-2 to 3 and 4 inch pots, cheap. Send for price lists. James M. Lamb, Fayetteville, N. C.

E. & C. Woodman, Danvers, Mass.
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CHRYSANTHEMUM PLANTS.

Opah, Mildred Ware, Mrs. Weeks, Amorita, Convention Hall, Dr. Enguehard, F. S. Vallis, Mrs. F. Thirkell, Etienne Bonnefond, Alliance, Beauty of Sussex, Mrs. Brice, La Fusion, Merstham Yellow, Fred Lemon, \$2.50 per 100; \$20.00 per 1000.

G. S. Kaib, Florence Teal, Glory of Pacific, Polly Rose, Willowbrook, Golden Trophy, Robt. Halliday, D. W. Childs, John Shrimpton, Maj. Bonaffon, Col. Appleton, Niveus, Bride, Pink Ivory, White Ivory, Vivland Morel, Cullingford, Ermanilda, Arelina, Nagoya, Maud Dean, Mutual Friend, W. H. Lincoln, Black Hawk, F. G. Jones, Golden Wedding, Timothy Eaton, Mme. F. Perrin, Wm. Duckham, \$1.50 per 100; \$12.50 per 1000. Address W. F. Kastling, 383-387 Ellicott St., Buffalo, N. Y.

5000 best commercial sorts. List free. Benjamin Connell, West Grove, Pa.

Charles H. Totty, Madison N. J.
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Chrysanthemums—Appleton and Alice Byron, surplus stock grown for our own use, 2 1-2-in., \$2.50 per 100; 3 1-2-in., \$3.00 per 100. J. W. Dunford, Clayton, Mo.

CLEMATIS.

Clematis paniculata, 2-yr., transp., \$6 per 100; 1-yr., strong, \$4 per 100. M. Y. Teas, Centerville, Ind.

COBAEAS.

Cobaea scandens, \$1.00 100. Express paid. Chas. Gay, Des Moines, Iowa.

COLEUS.

H. N. Eaton, So. Sudbury, Mass., Rooted Cuttings.

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Coreopsis lanceolata, 2 1/2 in. pots, \$2.50 per 100. E. Y. Teas, Centreville, Ind.

CUPS AND TROPHIES.

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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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DIGITALIS.

Digitalis in variety, for June flowering. Extra strong plants, \$5.00 per 100. Shatennu Nurseries, Barrytown, Dutchess Co., N. Y.

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Geraniums. If you are short on stock write us about our "Special Bench Plants, also 2 1-2" and Rooted Cuttings, The W. T. Buckley Co., Springfield, Ill.

Geraniums, 300 B. K. Bliss, 2 1/4 in., 2 1-2 c; 200 B. K. Bliss, 3 in., 4 1-2 c; 100 Mixed, 4 in., 6c.
Hammerschmidt & Clark, Medina, O.

Geraniums, 4-in., in bud and bloom, La Favorite, Buchner, Perkins, Jaulin, Landry, Viald and assorted rebs, \$7 per 100; strong 2 1/2-in. plants, ready to shift, \$2.50 per 100. J. W. Dunford, Clayton, Mo.

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GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for Florists.

Mineralized Rubber Co., New York.

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HONEYSUCKLES.

Japanese honeysuckles, fine for vase and box work, strong plants, 2 1/4-in., \$2.50 per 100. Harvey B. Snow, Camden, New York

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NYMPHEAS.

Odorata Rosea and Mariacea Chromatella,
strong roots, \$3.00 per doz. W. I. Bodfish,
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Pansies, once transplanted, best mixed,
50c. per 100.

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PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PIPE FITTINGS.

Pipe, Valves and Fittings, Cuyler &
Mohler, Baltimore, Md. Manufacturers'
prices, F. O. B. your railroad station. Im-
mediate shipment. Try us.

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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp.,
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Richmond roses, 21-2 in. pots, strong, vig-
orous stock, \$8.00 per 100; \$70.00 per 1000;
4000 plants. Joy & Son Co., Nashville,
Tenn.

Roses, 21-2 in. pots, Kaiserines and 300
President Carnots, \$4.00 per 100, \$35.00
per 1000. Cash with order or good refer-
ence, Wm. F. Kasting, 385 Ellicott St.,
Buffalo, N. Y.

Roses, Baby Rambler, the strongest dor-
mant stock in the country, \$25.00 per 100;
2 1/2 in. pot plants, \$7.00 per 100, \$65.00
per 1000. Brown Bros. Co., Rochester,
N. Y.

Strong Richmond roses, 2 1/2 in. pots,
\$7.00 per 100; \$50.00 per 1000. Joy & Son
Co., Nashville, Tenn.

ROSES—Continued.

Roses, Brides, Maids, Ivory, Gates, Un-
cle John, Chateaufay, 3 1/2-in., \$4.00 per 100;
1-yr. plants from bench, \$4.00 per 100. J.
W. Dunford, Clayton, Mo.

2 1/2-in. pots, ready now. Baby Ram-
blers, Teas, H. P. Roses, 50 varieties, at
\$30.00 1000; Crimson Ramblers, \$25.00 1000;
Baltimore Belle, Dorothy Perkins, Pink,
White and Yellow Ramblers, Queen of
Prairie, Seven Sisters, etc., at \$20.00 1000.
Gilbert Costich, Rochester, N. Y.

SALVIAS.

Salvia Splendens, 500 2 1/4 in., 2 1-2c.
Hammerschmidt & Clark, Medina, O.

SEEDS.

T. J. Grey & Co., 32 So. Market St.
Boston, Mass.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.

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H. F. Michell Co., 1018 Market St.,
Philadelphia, Pa.

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R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.

For page see List of Advertisers.

Wm. Elliott & Sons, 261 Fulton St., N. Y.
For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y.
For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O.
For page see List of Advertisers.

SMILAX.

Seedling smilax from flats, 25c per 100,
\$2.00 per 1000. Postpaid. Harvey B. Snow,
Camden, New York.

STEAM TRAP.

E. Hippard, Youngstown, O.
For page see List of Advertisers.

TOMATO AND PLANT SUPPORTS.

Igoe Bros., 226 North 9th St.,
Brooklyn, N. Y.

TUBEROUS BEGONIAS.

Henry A. Dwyer, Philadelphia.
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VEGETABLE PLANTS.

J. C. Schmidt Co., Bristol, Pa.
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Plainfield Nursery, Plainfield, Ind.
For page see List of Advertisers.

Ludvig Mosbaek, Orange, Ill.
For page see List of Advertisers.

VENTILATING APPARATUS.

Lord & Burnham Co.,
1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Sq., N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.

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Weathered Co., 46 and 48 Marion St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.

J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago

VINCAS.

E. & C. Woodman, Danvers, Mass.
For page see List of Advertisers.

Vinca minor var., 2 1/2 in. pots, \$4 per
10. E. Y. Teas, Centreville, Ind.

Converse Greenhouses, Webster, Mass.

Vinca Variegata.
For page see List of Advertisers.

VIOLETS.

H. R. Carlton, Willoughby, O.
Violet, Gov. Herriek.
For page see List of Advertisers.
William Sim, Chittendale, Mass.
Princess of Wales.
For page see List of Advertisers.

WATER LILIES.

Hardy water lilies, white, pink, yellow and red. Send for price list. W. J. Richards, Wayland, Ohio.

WITTOLD WATERING SYSTEM.

Louis Wittold, 1657-59 Buckingham Place, Chicago.

WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.
Wirework. Write for our catalogue
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

For page see List of Advertisers.
N. F. McCarthy & Co., 84 Hawley St., Boston.
George A. Sutherland Co., 34 Hawley St., Boston.
Welch Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.
Wm. F. Kasting, 393-87 Ellicott St., Buffalo, N. Y.

Chicago.

A. L. Randall Co., 21 Randolph St., Chicago.

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J. A. Budlong, 37 Randolph St., Chicago.
E. H. Hunt, 76-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Reinberg, 51 Wabash Ave., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.
Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

Detroit.

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Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Dilger, mgr.

New York.

For page see List of Advertisers.
Wm. Stuart Allen Co., 53 W. 28th St., New York.
J. S. Fenrich, 110 W. 28th St., New York.
Ford Bros., 48 West 28th St., New York.
H. E. Froment, 57 W. 28th St., New York.
Alex. J. Guttman, 43 West 28th St.
E. C. Horan, 55 West 28th St., New York.
Philip F. Kessler, 55 W. 26th St., New York.
Julius Lang, 53 West 30th St., New York.
A. H. Langjahr, 55 W. 28th St., New York.
James McManus, 42 W. 28th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55-57 W. 26th St., New York.
A. Moltz, 55-57 W. 26th St., New York.
John J. Perkins, 115 W. 30th St., New York.
John I. Raynor, 49 W. 28th St., New York.
W. F. Sheridan, 39 W. 28th St., New York.

WHOLESALE FLORISTS—Continued.**New York.**

Traendly & Schenck, 44 W. 28th St., N. Y.
Hicks & Crawbuck, Inc., 76 and 78 Court St., Brooklyn, N. Y.

Philadelphia.

For page see List of Advertisers.
W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
Edward Reid, 1526 Ranstead St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.
J. B. Murdoch & Co., 545 Liberty St., Pittsburgh.
Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.

New Offers in This Issue.**BEDDING PLANTS.**

Larchmont Nurseries, Larchmont, N. Y.
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FADELESS SHEET MOSS: LYRATA.

E. A. Beaven, Evergreen, Ala.
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GERANIUM, TELEGRAPH.

Thos. DeVoy & Son, Poughkeepsie, N. Y.
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GREENHOUSE BUILDING MATERIALS.

S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.
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MASTICA.

F. O. Pierce Co., 170 Fulton St., New York.
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ORCHIDS.

Carrillo & Baldwin, Secaucus, N. J.
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PEONIES.

The Cottage Gardens Co., Queens, N. Y.
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SEEDSMEN.

James Vick's Sons, Rochester, N. Y.
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SHASTA DAISIES.

Day & Webster, Hudson, Mass.
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TWENTIETH CENTURY PLANT STAND, GRASS-GROWING HEADS, ETC.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VIOLETS, MARIE LOUISE.

C. Lawritzen, Rhinebeck, N. Y.
For page see List of Advertisers.

Cypress Greenhouse Material**Boilers Fittings Pipe Greenhouse Class Putty**

We furnish all the material for your greenhouse. *Let us quote you.*

S. JACOBS & SONS

1365-79 Flushing Ave., Brooklyn, N. Y.

DON'T

Put off your

HEATING TROUBLES

until the last moment. If you have defective piping, poor circulation, and boilers that do more eating than heating, write to us. We can help you,

Holly Castle Co.

49 FEDERAL ST., BOSTON

MASTICA

(PATENTED)

For Glazing Greenhouses

Manufactured only by

F. O. PIERCE COMPANY

170 Fulton Street, New York

Agencies in all the Principal Cities of the United States and Canada

WRITE FOR CIRCULAR

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR RENT

TEN GREENHOUSES in running condition; possession immediately; \$50. Dwelling house attached, \$12; or will run on shares.

Apply **TRAENDLY & SCHENCK**,
44 W. 28th Street, N. Y.

WANTED—A Foreman Gardener

One with experience in shrubbery preferred. Apply at Mt. Auburn Cemetery, Cambridge, Mass.

FOR SALE Plant of 12,000 feet of glass in good condition and paying. Every thing for \$3000. Very easy terms. Look into it. H. J. Pult, No. Tonawanda, N. Y.

WANTED—A trustworthy, experienced foreman (unmarried) for rose and carnation establishment, 25,000 feet of glass. Near Boston. In writing give full particulars. Address D. D., care H. H. H. Co., Boston.

Here is something that concerns your

POCKET BOOK

Dorchester, Mass., May 17, 1906.
Messrs. Holly-Castle Co.

Dear Sirs:—In reply to your inquiry regarding the amount of coal consumed by my heating system I would say that I have used 56 tons costing \$327.50 during the past winter.

I used 1 ton of	Furnace	at	\$5.75
6 "	Cumberland	at	4.00
7 "	Pea	at	4.75
41 "	Egg	at	6.50
1 "	"	at	8.00

Mr. Dickerman puts the consumption last year at 75 tons of egg size. I haven't been able to get the exact figures as yet, but will endeavor to do so if possible.

If you find anything in the above letter that interests you, write to us.

HOLLY-CASTLE CO., 49 Federal Street, BOSTON

It would seem conclusive from the above figures that there has been a saving over last winter of 19 tons of coal, which, at \$6.50 per ton, makes \$123.50 saved. It has cost me \$26.00 for power to run circulator, which, deducted from \$123.50, leaves \$97.50 as the total saving on coal. Add to this the wages of a night fireman necessary on previous winters but dispensed with during last winter for four months at \$40 per month and you have a total saving of \$257.50.

You are at liberty to use this letter in any manner you desire as I have the bills and statements to back it up.

Very truly yours,
THOMAS R. MATTHEWS

GREENHOUSE MATERIAL.

OF ALL KINDS

FOLEY MFG. CO. 471 W. 22ND ST. CHICAGO

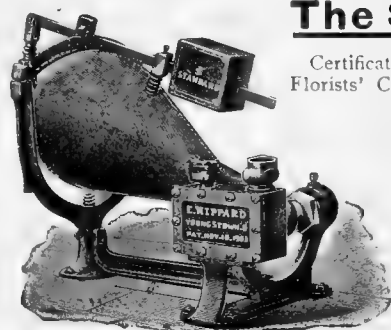
VENTILATING APPARATUS, PURLIN FITTINGS, HOT-BED SASH &c.

SEND FOR NEW FREE ILLUSTRATED CATALOGUE -

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.

FOLEY MANUFACTURING COMPANY, 471 W. 22d Street, Chicago.

The Standard Steam Trap



Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

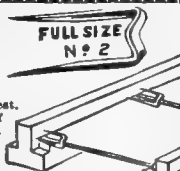
E. HIPPARD, Youngstown, Ohio



BY SLIPPING A
PEERLESS GLASS REPAIR CLAMP
over a cracked glass you protect your stock, save coal and glass. Do it now before the high winds play havoc with your roofs. \$1.00 will repair 150 lights. Ask your supply man, or
A. KLOKNER, Wauwatosa, Wis.
Endorsed by about 400 prominent florists.

WEATHERED COMPANY
46 MARION ST., NEW YORK
GREENHOUSE BUILDING AND HEATING
Send for Catalogue.

Holds Glass Firmly
See the Point
PEERLESS
FULL SIZE No. 2



Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER, 714 Chestnut St., Phila., Pa.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insure better service. Personal attention guaranteed. Twenty-five years' active practice. SPECIALTY: "Working on the Failures of Others"

SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

BOSTON PLATE & WINDOW GLASS CO.
GREENHOUSE GLASS
German and American
261 to 287 A St., BOSTON 20-22 Canal St.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 2 1/2 " " " 5.25	60 8 " " " 3.00
1500 3 " " " 6.00	HAND MADE
1000 3 " " " 5.00	48 9 in. pots in crate \$3.60
800 3 1/2 " " " 5.80	48 10 " " " 4.80
500 4 " " " 4.50	24 11 " " " 3.60
320 5 " " " 4.51	24 12 " " " 4.80
144 6 " " " .16	12 14 " " " 4.80
	6 16 " " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address
Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Holker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money
W. H. ERNEST,
28th and M Streets, WASHINGTON, D. C.

FINE SILVER CUPS and TROPHIES

For Exhibition Awards, Sporting Events, etc.

FINEST ASSORTMENT IN THE COUNTRY FROM THE BEST MANUFACTURERS AND AT LOWEST PRICES.

THORNTON BROS.,
LAWRENCE, MASS.

Greenhouse Glazing, Painting and Bulbing

a Specialty

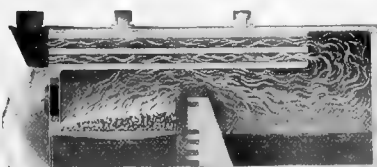
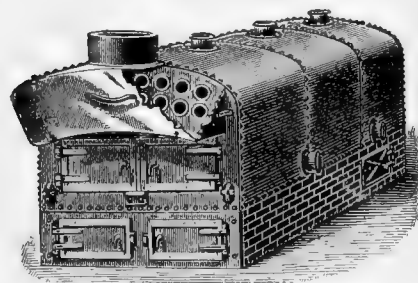
ALL WORK DONE NEATLY

Orders Solicited for
Twemlow's Old English Glazing Putty

W. A. BRUCE, NO. 1 COLUMBUS SQUARE, BOSTON
TELEPHONE 1198-7 TREMONT

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,
35 Erie Street, CHICAGO.

Boilers made of the best material, shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

SEND FOR CATALOGUE OF
SCOLLAY HOT WATER
and STEAM BOILERS
JOHN A. SCOLLAY

78 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

N. TONAWANDA,
N. Y.TORONTO,
ONT.

GREENHOUSE CONSTRUCTION
LUMBER

John C. Moninger Co.
117 E. Blackhawk St., CHICAGO

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.



HOW EQUIPPED

We don't advertise ventilating apparatus or boilers, but we equip our greenhouses with just the best there is made. Our business is selling to private estates, parks, etc., U-Bar greenhouses.

U-BAR GREENHOUSES

Are the Best Greenhouses Built

because none are so adaptable to both the needs of plant life and the side of attractiveness — none adapt themselves so perfectly to any surrounding demanding lines of ornateness.

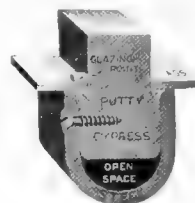
KNOW U-BAR REASONS
BEFORE YOU BUY A GREENHOUSE

PIERSON U-BAR COMPANY

Designers and Builders

U-BAR GREENHOUSES

Metropolitan Bldg., 4th Ave. and 23rd St.
NEW YORK



GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE. 74 FRANKLIN ST. BOSTON

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL

STANDARD PLATE GLASS CO.

Manufacturers, Importers and Jobbers

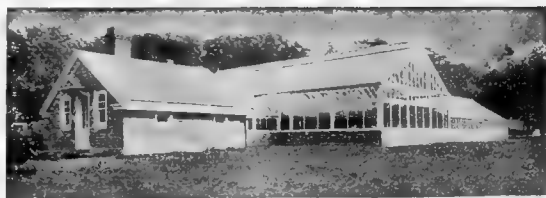
AMERICAN AND FRENCH GREENHOUSE GLASS

26-30 Sudbury Street
61-63 Portland Street

BOSTON, MASS.

TO BUYERS

Patronize our advertisers, they will treat you right



The Highest Price

does not always mean the best work or materials, it sometimes means paying for a name. We believe in making the name pay you. It pays to buy from a firm whose name stands for the best — and only the best — in greenhouse building.

HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.

Manufacturers of Heating and Ventilating Apparatus.

1170 Broadway,

NEW YORK.



THERE'S A CHARM IN THE RIGHT LAYOUT AND WE KNOW HOW TO MAKE THE LAYOUT RIGHT

Greenhouses are not mere plant machines — a place to turn out so many blooms, so many bedding plants — they might just as well be points of ornateness, adding their own beauty to that of the grounds they beautify.

Of course, our houses are first of all practical, paying propositions, but we make them just as attractive as they are practical.

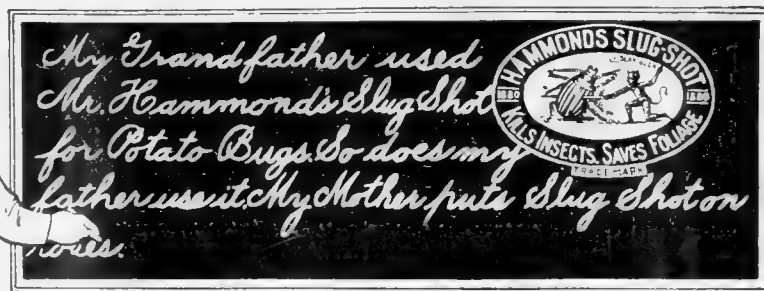
Lord & Burnham Co.

**GREENHOUSE DESIGNERS
and MANUFACTURERS**

1133 BROADWAY, cor. 26th Street, N. Y.

Boston Branch: 819 Tremont Building

SOLD BY ACTIVE SEED DEALERS 25 YEARS



"SLUG SHOT"

Used from Ocean to Ocean

A light, composite, fine powder, easily distributed either by duster, bellows, or in water by spraying. Thoroughly reliable in killing Currant Worms, Potato Bugs, Cabbage Worms, Lice, Slugs, Sow Bugs, etc., and it is also strongly impregnated with fungicides. Put up in Popular Packages at Popular Prices. **Sold by Seed Dealers and Merchants.**

HAMMOND'S SLUG SHOT WORKS, FISHKILL-ON-HUDSON, N. Y.

For Black Spot
"Solution of Copper"
1 gallon makes 100

For Blights or Rot
"Bordeaux Mixture"
True Blue and Butter
Fine

For San Jose
Scale

"Horicum"
Perfect Lime, Soda
and Salt Concentrated

**FINE GOODS FOR USERS } Twemlow's Old English Glazing Liquid Putty
Greenhouse White Paint, Genuine.**

For use on Cold Frames, Greenhouses, etc.

For pamphlets worth having write

B. HAMMOND, Fishkill-on-Hudson,
NEW YORK.

HORTICULTURE

Vol. III. JUNE 2, 1906 No. 22



PEONY FESTIVA MAXIMA, THE FLORISTS' FAVORITE

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

. IT IS A GEM .

All the new ferns have **some** good qualities, but **only one** has **all** the good qualities. That one is

NEPHROLEPIS WHITMANI



Every frond is perfect. Never reverts to type. It grows and increases as rapidly as the old Boston. Makes a symmetrical plant in any size pot from 2 1-2 inch up. Its superiority is acknowledged by the introducers of the other forms of Boston fern. Received a unanimous report of superior merit from the Gardeners' and Florists' Club of Boston on February 20 last. The Massachusetts Horticultural Society on March 24, at their big spring show, honored it with a Silver Gilt Medal the highest award made to any of the numerous novelties exhibited.

Buy now and get the advantage of having a good stock to sell while it is yet a novelty. Orders filled strictly in rotation. Heavy advance orders are now in hand.

Prices, \$25 per 100; \$200 per 1000. 500 at 1000 rate

H. H. BARROWS & SON
WHITMAN, MASS.

WE ARE HEAD-
QUARTERS FOR

PRINCESS VIOLET STOCK

The **Princess of Wales** is still the leader of all single violets. There is no other variety on the market that can compare with it as a commercial violet because it blooms from Sept. 15th to May 1st; every bloom is marketable. It has size, it has color, it has length of stem. It has fragrance. It sells when any other variety, single or double, can not be given away. The people want it.

So great is my confidence in this violet that the following Autumn I will devote 80,000 feet of glass to the growing of this variety.

I have about 200,000 nice young divisions now ready to ship at the following prices:

\$2.00 per 100

\$15.00 per 1000

500 at 1000 Rates

Lots of 5000 at \$14.00 per 1000

Lots of 10,000 \$13.00 per 1000

WILLIAM SIM,

- Cliftondale, Mass.

Order your Violet Stock now

Largest grower of Violets in America

GILT-EDGED ROSE STOCK

Large plants ready for Bench. (Own Roots)

Richmond	3	in.	\$10.00 per 100;	\$90.00 per 1000
Wellesley	3	"	6.00 " "	
"	4	"	8.00 " "	70.00 " "
Chatenay	3	"	4.50 " "	
Killarney	3	"	8.00 " "	70.00 " "
Maids	3	"	4.00 " "	35.00 " "

Crafted

Extra strong, equal to good 4 in. stock

Killarney			\$16.00 per 100;	\$135.00 per 1000
Gates			10.00 " "	
Chatenay			10.00 " "	

S. J. REUTER, Westerly, R. I.

GOVERNOR HERRICK

The NEW VIOLET

The finest single, the freest bloomer, the greatest money maker ever offered for sale. Write me today.

1 doz., \$2.00; 100, \$10.00; 1000, \$75.00;
5,000 or more at \$60.00 per 1,000

H. R. CARLTON

Originator and Introducer

WILLOUGHBY, O.

Some People have taken our advice as published in

these columns re-ent- **My Maryland** ly and are buying for trial. We reiterate here—if it succeeds, with you as it does with us, it will prove the best white carnation you ever grew. Despite the variety's apparent failure in several places, we strongly advise all growers to give it a trial. We have been frank about its faults as developed in other places. We doubt if these will develop in many places.

Jessica we believe, will succeed generally and will prove to be the best red and white variegated ever disseminated. Few varieties show as strong constitution as this one does and it is a wonderful producer. Extra fine stock of both varieties ready now. R. C., \$2.50 per doz., \$12.00 per 100; \$100.00 per 1000. Pot plants, \$3.00 per 100 extra.

Send for our catalog, now ready.

The H. Weber & Sons Co., Oakland, Md.

	100	1000
RICHMOND ROSE 2½ in.	\$12.00	\$100.00
KAISERIN " "	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
ENCHANTRESS	3.00	25.00
QUEEN and LAWSON	2.00	18.00

E. H. PYE, FLORIST

UPPER NYACK, N. Y.

CHICAGO CARNATION CO.

JOLIET, ILL.

JAMES HARTSHORNE, Manager.

Dracena Indivisa, 2½ in., 4 in., 5 in. and 8 in., per doz., 75 cts., \$2.00, \$1.50, \$4.00 and \$5.00. Per 100, \$50.00, \$15.00, \$20.00, \$30.00 and \$40.00.

Vinca variegata, 4 in., 5 in. Per doz., \$1.00, \$2.00. Per 100, \$12.00, \$15.00.

Dahlias, tubers per doz., 75 cts., per 100, \$7.50.

Variegated Century Plants—prices and sizes on application. Cash Please.

E. & C. Woodman, Florists, Danvers, Mass.

My Special Mum Offer

100 Plants in 10 Varieties for \$5 00

Send me a list of varieties that you already have, and I will send you 10 newer varieties that you ought to have, such as

Jeanne Nonin, White Coombes, Mrs. Swinburne, etc.

The great **MORTON F. PLANT** now ready at \$7.50 per doz., in 2½ inch pots.

My motto is still the same. Your money back if not entirely satisfied.

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HORTICULTURE

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WM. S. HERZOG, Morris Plains, N. J.

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Dwarf Peach Trees

The accompanying illustration is from a photograph of a dwarf peach tree at the height of the blossoming season. This tree is growing on St. Julien plum root. It was propagated in France. It was planted in the grounds at Massachusetts Agricultural College four years ago this spring. Since that time it has twice been killed back to the ground by the severe winters, and it has borne one full crop of fruit. This is a pretty good record I think.

There is much interest everywhere in dwarf fruit trees. In many ways the peach is one of the most attractive fruit trees for dwarfing, because it comes so early into bearing and because it is so thoroughly adapted to garden culture.

In this country it is practically impossible to get St. Julien plum for use as stocks even when it is imported from France. It does not grow well and is hard to bud. We found excellent results in dwarfing peaches by budding them on American plum or on dwarf sand cherry. They may also be budded on the common Myrobalan plum.

Naug



Echoes from England

ROSA SERICEA VAR: PTERACANTHA

(See Colored Supplement.)

Although the rose owes its universal popularity chiefly to its glorious fragrant blossoms, there is a charm and distinct beauty in the foliage of many and in the stems of some. Others again are remarkable for their fruits, even more perhaps than for their flowers. The young shoots of almost all roses are attractive, but those of the chinas and the teas are especially so. When unfolding, the tender shoots are tinged with shades of ruby red and bronze and then have a charm almost as great as when the flowers are out. Among the wild species of roses none perhaps has more beautiful leafage than *Rosa rubrifolia*, which is quite worth growing on this account alone.

Of roses whose fruits are of decorative value in the garden, the Japanese briar, *Rosa rugosa* is one of the most striking. This rose makes a large bush which in early summer is a mass of large pink or white flowers, according to the variety planted, and in late summer and autumn the flowers are followed by the large and brilliantly colored fruits. *Rosa lucida* is an excellent plant for the rock garden. Not only are the crimson berries most effective, but the glossy leafage too gives an additional beauty to the plant. *Rosa villosa* is another rose with showy fruits, which are red. White *Rosa spinosissima* and *Rosa cinnamomea* are others.

Of roses with colored stems that shown in the accompanying colored plate is undoubtedly the most striking and handsome variety yet in commerce. One can well imagine what a glorious picture in the garden might be made by a group of this rose, its large and prominent winged spines and leafage of tender green combining to produce an effect unique among roses. *Rosa sericea* is a lovely single rose from the Himalayas that is little known in gardens. A well-grown plant produces perfect wreaths of creamy white blossoms on its arching shoots. *Rosa sericea* var. *pteracantha* was first exhibited in the United Kingdom, as far as I am aware, at the great International Horticultural exhibition held in Edinburgh in September last. It was then awarded a first-class certificate. It was exhibited by Messrs. Paul & Son of Cheshunt, for Messrs. Vilmorin, Andrieux & Co. It was stated to have been raised by M. Philippe de Vilmorin. It was not in flower, but this was immaterial as it was easy to see that its value as a garden plant lay in the large winged crimson spines. These are arranged along the branches almost continuously, as may be seen by referring to the colored plate. Mr. George Paul, who had seen the rose at Les Barres, France, stated that the plant grew 8 feet or 10 feet high, and that the appearance of the arching stems with the light upon the rich crimson coloring of the spines made a remarkably fine picture. This one

can well understand from the appearance of the specimens shown at Edinburgh and afterwards in London. Such a rose as this ought to find a warm welcome from all who find beauty in stem and leaf as well as in flower.

NEW AND NOTEWORTHY PLANTS.

Cactus Dahlia, The Pilot. This beautiful new dahlia which was represented in the colored plate recently published as a supplement to *HORTICULTURE* is a flower of distinct and striking coloring, as the colored plate showed well. It was raised and exhibited by Hobbies, Ltd. In September last this firm exhibited it at the annual show of the National Dahlia Society. It was then much admired and received a first-class certificate from the society. The cactus dahlia, of which there are now very many lovely varieties, has to a large extent replaced the old show dahlias so far as garden decoration is concerned. They flower more freely and the flowers are better exposed to view than the heavy blooms of the show and fancy sorts. Even among the many beautiful sorts of cactus dahlias which have been sent out during the last few years "The Pilot" stands out as one of the most handsome. A group of this variety in the border would make a grand display in the late summer.

A NEW DOUBLE-FLOWERED LOBELIA.

The lovely double-flowered blue lobelia which was shown in the colored supplement given with *HORTICULTURE* for May 5 is a valuable plant. Many varieties of the lobelia have from time to time been sent out as being improvements upon those already in commerce. Some are recommended for their rich or distinct coloring and some for their improved habit of growth. The lobelia illustrated in the colored plate is a variety of lobelia speciosa and the beautiful sky-blue double flowers are produced very freely. Nothing can excel their delightful color and form. In the colored plate it is shown growing in a pot, and for this method of culture it is particularly well suited on account of the semi-pendent habit of growth. This characteristic enables it in a short time completely to cover the pot and produce a charming effect. It makes an excellent bedding plant as the double flowers are very lasting; in fact, it seems to bloom freely throughout summer and early autumn. On account of its semi-trailing habit of growth it may be grown in baskets.

A NEW CLIMBING ROSE.

At a meeting and exhibition held by the Royal Horticultural Society on the 15th inst., a very beautiful new climbing rose was shown by William Paul & Son. It is called Kathleen and is of the multiflora type to which many of our best rambling and climbing roses belong. This rose grows strongly and bears bunches of fairly large apple-blossom-like flowers which are a rich, soft rose in color with a lighter centre. William Paul & Son showed several plants of this rose—some 6 or 7 feet high—grown in pillar form and bearing bunches of their richly colored flowers from top to bottom. This rose has one very important characteristic which renders it valuable among single flowered climbing roses:

namely, the flowers last well. They do not fall quickly, as many single-flowered roses are apt to do. The plants exhibited by William Paul had been in bloom for three weeks already and the flower bunches still gave no sign of falling. Even by shaking the plants not a petal was made to fall.

RHODODENDRON PINK PEARL.

This is undoubtedly the finest of the pink-flowered rhododendrons hardy in this country. It is unapproached for size and beautiful coloring of the individual bloom and also for the size of the flower truss, which is magnificent. Yesterday at the exhibition of the Royal Horticultural Society Messrs. John Waterer & Sons, Ltd., Bagshot, set up a splendid group of Pink Pearl rhododendron. The plants were a feature of the show. This variety, which hitherto has been offered at rather a high price, is to be offered in the autumn at reduced prices. A new variety called White Pearl was also exhibited by Messrs. Waterer. This is virtually a white flowered form of Pink Pearl and a beautiful plant it is. It does not make such a lovely display as Pink Pearl, being a white variety, but it is nevertheless remarkable for the size of the individual bloom and the flower truss. Messrs. Waterer obtained an award of merit for a new variety called Mrs. E. C. Stirling. This rhododendron, which is quite hardy, is one of great promise; it has a very large flower truss of a lovely pale pink color.

Harry H. Thomas

The Columbines

The perennial garden or border seems incomplete unless some of the columbines are grown. They bloom early in April and others flower as late as June. Not only can they be depended on for bloom, but their hardiness is unquestioned. Though largely used for border and formal garden planting, they can hardly be omitted in a rockery. In such a situation they thrive and give plenty of bloom.

Our native variety canadensis loves a partly shaded location. The beautiful blue and violet flowers of the species vulgaris makes it much prized. Quite distinct from these two types is chrysantha, which bears a yellow flower. The true Rocky Mountain species, coerulea, has beautiful light blue sepals and white petals.

One of the very finest late introductions is the dwarf Japanese flabellata nana alba. It grows about one foot high and bears beautiful white flowers in profusion in April. The foliage is quite distinct from all the others, being glaucous-green in color and more fleshy. It is excellent for edging, as the foliage looks well the entire season.

Murray Chandler

HORTICULTURE FREE TILL JULY

All subscriptions, new or renewed, sent in between the present time and July 1 will be dated ahead to July 1. Send your dollar. No time like the present time.

Trachelospermum jasminoides

This plant is better known as *Rhynchospermum jasminoides*; it further enjoys like most plants an additional synonym, *Parechites jasminoides*. Synonyms are quite fashionable of recent years. Whether this sort of thing is beneficial and edifying to the craft each reader has to determine for himself.

The plant in question belongs to a small genus of four species, according to some authorities, and hails from China. It easily ranks with the choicest of greenhouse trellis plants, and no establishment of any consequence should be without one or more specimens of this exquisitely fragrant white-flowered vine. It is very accommodating and easily managed as it makes itself at home in the stove, greenhouse, cool-greenhouse, or even in a substantial pit, where it can be wintered all right. The pit or cool greenhouse treatment suits it best, as there it is more abundantly floriferous and lasts longer in flower.

One moderately large plant is sufficiently fragrant to add character and choiceness to a whole collection of flowering plants at this season of the year, provided the cool treatment has been adopted; but to realize the charming capabilities of this plant from a floral effect standpoint, a number of them must be grown and flowered at the same time; the larger the plants, as a matter of course, the grander and more imposing the show.

Any one who can recall—and that is not remote—the dozen or thereabouts of the magnificent specimen plants shown at the opening of Boston's new Horticultural Hall, commonly known as "Prof. Sargent's Show," will not, methinks, begrudge all the praise that I can bestow on it. Some of these were trained on trellises eight or more feet high, and from four feet up in diameter, completely obscuring all traces of the frame work with their ample growth and leathery dark-green leaves, surmounted with their snowy-white flowers.

If I, by thus reminding my fellow-craftsmen through the medium of your journal, can establish the true worth of this plant, to the point of stimulating a desire on their part to take up its cultivation, however limited, I will deem my mission in this connection not amiss. It can be variously used to advantage, on trellises on the roof of a greenhouse, for clothing pillars and other bare objects; but for best results on formal trellises in pots or tubs, the latter method being preferable as the plants can be shifted to any desired place at will like any other plant. When piazza decoration is in practice—and it is but few places of any importance nowadays that doesn't maintain a floral display on their piazzas at some one season of the year at least—the subject of this note is especially fitted to lend charm and grace to such floral displays.

As stated at the beginning of this note it is easily managed, not requiring any special admixtures of soil to ensure success, other than what suits most plants. In the growing season it enjoys copious watering as well as frequent overhead sprayings. To obtain large

plants in a given space of time planting-out in rich, friable soil is to be recommended. Care, however, in this practice, is to be given to the lifting in the fall, as insufficiency of a bale of earth at lifting may prove disastrous thereafter. While it can be rooted from old wood, semi-young wood is the most appropriate, as roots are emitted from such wood much more quickly than from the former. There is a variegated form of this type that is less satisfactory as it is generally less floriferous, otherwise it makes a very fine plant when grown to a large size.

W. F. Emeryson

Rockerries or Rock Gardens

Why is it that this branch of the gardener's art receives such scant attention on this side of the Atlantic? Most every estate of any magnitude contains a nook or corner suited for the construction of one, and as a rule the situation most suitable for a rockery is hardly adapted for any other purpose. When one considers the multitude of gems that flourish in only such positions, and when it is taken into consideration what a treat it is to stumble onto one, after seeing large areas of smooth lawn, symmetrical roadways, the everlasting wavy line of shrubbery, etc., it is surprising that they are not more in vogue.

In most of the botanic gardens and many private estates on the other side the rockery is one of the spots most frequented by sightseers. At any season of the year it is attractive, whether in early spring when the fern fronds are untwirling in graceful coils in the shady crannies and many alpine plants are flowering on the more exposed situations, or summer and autumn when the ferns have fully developed their fronds and show their great diversity of formation, from the broad leathery looking scolopendras to the fine feathery fronds of the lastreas, etc., and the noble osmundas, to the small, but nevertheless interesting adiantums and aspleniums.

Many of the rarer and beautiful alpine plants require to be lifted in fall and potted up and kept in a cool house, as it is somewhat difficult to shelter them properly, as the pockets in which they love to be placed fill with rain or melted snow, and freeze solid, frequently killing them outright, or else crippling them to such an extent that they seldom recover.

The general idea of a rockery is a heap of soil and stones, pyramidal or otherwise. We are not advocating the construction of any such thing. The idea one should try to obtain in building a rockery is that of a rocky glen in miniature. The rougher in outline the better, making as many pockets in all kinds of places as possible. The introduction of water for cascades and pools will lend an added charm and will make it possible to introduce many species of both plants and ferns that otherwise would not succeed.

Field stone of rough exterior, tree butts, large clinkers such as can be had at smelting concerns, etc., are amongst the most suitable articles for construction, and with the careful use of cement it is surprising what effect may be produced. In making the pockets always try to provide adequate drainage.

Charles Ingram

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WM. J. STEWART, *Editor and Manager.*

Prosperity in the nursery trade

It is doubtful if the history of horticulture in America can furnish a parallel for the tremendous expansion which the ornamental nursery trade has experienced during the past few years. Every dealer in hardy shrubbery and herbaceous material has had more business than he could attend to during the spring which has just closed and it has been impossible to obtain the stock to fill the orders for special sizes in some things at figures that would make an orchid dealer envious. There is plenty of room for more nurseries and the best of encouragement for their establishment. In no section of the country is this industry overdone and the limit for the immediate future is not in sight. Enterprising young men make a note of it.

The great floral holiday

Decoration Day has again come and gone and according to beautiful custom the field, garden and the greenhouse have given lavishly of their choicest product that the day might be appropriately observed. Each year sees this occasion take on a deeper significance and a more widespread devotion of the holiday to its rightful purpose. But great as the demand for flowers has become and astounding as its increase has been from year to year, we believe it is yet but moderate as compared with what the future will develop. Already in many communities it has reached the distinction of being the most important day in the year in the amount of business it brings to the florist. Eventually this will be true of every community. Now is the time to plan for next year's special crops to meet this call.

The peony

The importance of the peony as a cut flower, in a commercial way, grows apace. Thanks to the discerning foresight of a few enterprising growers certain markets are already, while the demand is still young, handling peonies in a systematic wholesale manner while in others the movement has scarcely been felt thus far. Growers will make no mistake in planting liberally of this popular subject which is bound to take the same indispensable place in its season which the chrysanthemum holds in

the autumn. We expect to see the flowering season extended to cover many weeks, by the production of extra early and extra late varieties and the adoption of special cultural methods, as has been done so successfully in the case of the chrysanthemum. Cold storage of the buds has also been carried out with fair success by sundry large growers. As to varieties, those kinds having the most desirable qualities of usefulness and popularity will gradually come to the front from the over-crowded lists now available. It will be a long time, however, before the splendid variety *Festiva Maxima*, shown on the frontispiece of this paper, has to take a back place as a florists' flower.

The Boston gardeners are admonished

In the May issue of our esteemed contemporary, *The National Nurseryman*, we find an editorial comment on the project of the Gardeners' and Florists' Club of Boston to establish a course of study in the primary essentials of landscape garden work: "Gardeners," it tells us, "should remember that landscape work in its highest sense is a fine art, and is very different from the mere laying out and planting of restricted areas of ground. The essentials and qualities of a good landscape are not in the same category with the requisites of a backyard or a small dooryard lawn. While instruction of this kind is most desirable, gardeners should realize that a brief course of that type will not make them landscape gardeners. It is valuable from the standpoint of making them more familiar with plant materials, but the study of landscape gardening can only be conducted by a study of the theory of design in its broadest sense." Doubtless this ponderous chunk of pedantic profundity will duly impress these presumptuous Boston gardeners who would aspire to reach out beyond their "backyard or small dooryard lawn" and dare to trespass upon this sacred domain of "fine art" which our Rochester contemporary assumes to guard so jealously. It is possible, however, that these venturesome gardeners may also "remember" the teachings of one A. J. Downing who held that beauty of landscape cannot be subjected to or circumscribed by any fixed rules of art, and they may also take courage from the words of that great expounder of the principles of taste and their application, when he wrote, "There is really a native school of horticulture about Boston, and even foreign gardeners are obliged to yield to its influence." We do not think there is any need for our respected contemporary to worry about the outcome of this little educational venture on the part of the Boston fraternity. They "realize that a brief course of that type will not make them landscape gardeners," but they also realize that the exclusive possession of intellect, genius, and refined taste has been bestowed upon no individual or coterie and undoubtedly know very well what they are about. We might also add that anyone who thinks to feather his nest by adopting a supercilious attitude towards the gardeners shows mighty poor judgment.

AFTER ADJOURNMENT.

Rhododendron Smirnovi is a new variety of the evergreen section from the mountains of Northern Asia, which has just bloomed for the first time at the Arnold Arboretum. It appears to be perfectly hardy here and its most remarkable quality is its early blooming. It is now through flowering, when atrosanguineum and others hitherto among the earliest hardy varieties are just opening. The flower is large, pink, finely spotted with light brown on the upper lobe. The variety promises great commercial value.

As announced in our advertising columns the Messrs. Barrows are now ready to send out their new fern, Nephrolepis Whitmani. It is seldom that we can give the unqualified praise to a new introduction which in this instance is merited. Perfection of form and rapidity of multiplication will make it at once a favorite with the amateur and the commercial grower alike.

The great rainfall of the past few days has changed the complexion of things horticulturally and agriculturally, and instead of dust-dry garden beds we now have deeply soaked earth. The weeds have already found it out and weed killing will soon take its place on the program. The weed-killer man whose advertisement appears on the back page of this paper now becomes a very important personage, and we suggest that our readers communicate with him speedily.

NEWS NOTES.

The Essex greenhouses, Cleveland, O., have been rented by F. C. Bartels, who has been connected with the J. M. Gasser Company.

The greenhouse of Fritz Herst at Bennington, Vt., was badly riddled by a hail storm on May 25. Damage to glass and plants estimated at \$500.

The South Bend Floral Co., South Bend, Ind., are planning the addition of 20,000 feet of glass to their plant to meet the needs of their increasing business.

Foster Bros., located at 1564 Fulton street, Brooklyn, N. Y., were the victims of burglars on May 25. Fortunately there was only a small sum of money in the cash drawer.

John Dellar of Cincinnati was thrown from his wagon by a collision with a street car and so badly injured that he was taken to the hospital. At last reports he was improving.

By order of T. T. Crittenden, referee in bankruptcy, the stock and all assets of the Chas. A. Shaeffer Floral Co., Kansas City, Mo., were sold at auction on May 19 by U. S. Marshal E. R. Durham.

While Fenton Fennell of Cohoes, N. Y., was delivering orders on the afternoon of May 21, an electric car crashed into the rear end of his wagon, throwing him against the bridge which he was crossing. He was removed to his home and examination showed that no bones were broken, but his muscles were wrenched and flesh torn, and his recovery will be slow.

WHOLESOME CHESTNUTS.

To keep private hedges in good condition they ought to be clipped early. Tall growing herbaceous plants should be supported by stakes of wood with the bark on or painted green. White tips are not harmonizing, far less ornamental.

Although the melon blight absented itself last season it is the safer plan to be as fully prepared for its presence as possible. For that purpose it will be well if melons are grown in regular frames (not melon frames), to continue covering them in order that at least a part of the crop expected may be secured.

It may seem a big job to thin the fruit on out-door peaches and on pears but I question if there is one that tries it once that doesn't keep up the practice, because of the better fruit in every way that invariably results.

Hydrangeas, like roses, require a great deal of water when making their growth and, like roses too, the size of bloom depends on the growth of wood and for that reason they should be carefully watered and fed before flowering and while they are in flower. Hydrangeas in tubs do not show up to good advantage the first season after tubbing if they have been before then grown in the open ground but under favorable conditions they will make up for what they lack, the second season.

The mortality among hydrangeas last winter ought to teach us that it will pay to lift plants of moderate size at least, and put them where they will be reasonably safe from whatever cause played havoc last winter.

When cutting paeony flowers for use in decorating don't defer putting the stems in water immediately after they are cut otherwise the flowers will not last long.

Have you roses Frau Karl Druschki and Mildred Grant? If not, try and see them in bloom somewhere; in the latter event I am mistaken if in consequence a few plants do not change hands before this time next year.

TOLEDO ENTERPRISE.

Searles Bros., one of the leading market gardening firms in Toledo, O., are preparing to erect a range of greenhouses for lettuce and cucumbers. Their present plant consists of ten houses, each 34x260, and they have recently acquired two adjoining plots of ground which will be put under glass, making a tract of nearly twelve acres. They will build this year enough houses of size 14x750 to cover two and a half acres, for which contract has been let. Construction has begun on the boiler plant, which is to be 60x150. Hot water will be the system used in heating. They expect to have the two and a half acres of glass in working order by October 1.

One-half of George Bayer's place is now devoted to tomatoes, and they are fine in foliage and fruiting satisfactorily. Before tomatoes were planted, lettuce was the crop, which was put in after the chrysanthemums had outgrown their usefulness. Mr. Bayer is thus making a happy combination of cut flowers and garden truck, and that there is no mistake about it is shown by the prosperous appearance of the whole plant.

THE INCONSISTENCY OF JUDGES.

Editor HORTICULTURE.

Dear Sir:—In your issue of April 14th I notice a letter under the heading of "An Exhibitor's Grievance" in which the writer displays an admirable frame of mind in saying he would rather have a cultural certificate than a gratuity. In the following issue we have a letter from the chairman of the committee of judges giving a reason for withholding such a certificate, namely, that the pips were not grown by the exhibitor, and required only ordinary culture. In your issue of this week I notice a cultural certificate has been given by the same society for Lilium candidum. Now to a "Gardening Elizabeth" such inconsistency is incomprehensible and I dare say the same for a good number of your readers. Does Lilium candidum require more skillful culture than lily of the valley? or were those bulbs in question grown by the exhibitor, or even American grown?

Yours,

ELIZABETH DRAKE.

Pittsburg, Pa.

PERSONAL.

W. F. Dreer of Philadelphia was a visitor in Boston for a few hours last week.

George E. Struck, traveling representative of Lager & Hurrell, is sick with the measles at the City Hospital, Boston.

William N. Reed of Reed & Keller, New York City, accompanied by Mrs. Reed, will sail on June 12 for a business and pleasure trip on the other side.

Mr. and Mrs. Joseph Fuller of Leominster, Mass., will sail from Boston for Naples on the Romanic, June 5. They expect to spend about two months in European travel.

OBITUARY.

Charles E. Parker of Holden, Mass., died on May 22. He had served the town in various capacities and conducted a florist business for many years. He is survived by a widow and five children.

John Kelly died at his home in New Canaan, Conn., May 19, aged 83. Mr. Kelly had been connected with Edwin Hoyt's nurseries since boyhood, and had grown up with the business. A widow and five sons survive him.

Mrs. Norton, wife of M. H. Norton, ex-president of the Society of American Florists, died on May 26, after a long and painful illness. The funeral took place on Monday, May 28, from her late residence in Dorchester, Mass.

Frank B. Smith, who for the past twenty years has been engaged in the florist business in Danville, Ill., died at his home in Roselawn on May 13, aged 59. His sons Joseph J. and Herbert E., who have had charge of his business for the past two years, will continue it under the name of Frank B. Smith's Sons.

INCORPORATED.

Begerow Floral Co., Newark, N. J.—A. Begerow, A. C. Begerow, O. Ramssperger, J. Schottmaier, T. W. Dobbins, Jr. Capital, \$25,000.

NEWS OF THE CLUBS AND SOCIETIES.

NEWPORT HORTICULTURAL SOCIETY.

A regular meeting of this society was held last Tuesday evening, President MacLellan in the chair. The finishing touches were given the schedule for the August exhibition. It was expected that a lively discussion would arise out of the question referred to the Executive Committee, "What is an Annual?" but that committee judiciously rid itself of the whole business by referring the question in turn to the judges at the exhibition which now to me seems the most sensible course to pursue.

Again this year one of the features of the Carnival will be a floral parade and, considering the pronounced hit made by the society's float last year, the members voted to send a delegation to attend the meetings of the carnival committee with power to co-operate in any undertaking suggested and give the carnival committee to understand that the Horticultural Society would again place a float in the parade. It was also voted to select judges for the exhibition from among the gardeners of Newport in order that the disappointed ones may have a better chance to wreak vengeance.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next field day of the club will be held on Tuesday, June 19, at the estates of Larz Anderson and Mrs. W. C. Brandegee, Faulkner Farm, Brookline. Members will meet at 3 o'clock on this occasion and after the estates have been inspected adjournment will be made to Horticultural Hall where the regular monthly club meeting will be held, and for which a specially attractive program is arranged. Full details later.

W. N. CRAIG, Secretary.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual rhododendron exhibition of the Massachusetts Horticultural Society will be held at Horticultural Hall, 300 Massachusetts Ave., Saturday, June 2, from 12 to 6 o'clock.

In addition to rhododendrons and hardy azaleas there will be a fine display of orchids, irises, hardy herbaceous flowers, and ornamental trees and shrubs. Collections of vegetables also will be shown.

Admission is free to the public.

WM. P. RICH, Secretary.

AMERICAN SEED TRADE ASSOCIATION.

The twenty-fourth annual convention will be held at the Boody House, Toledo, O., June 26-27-28, 1906.

OFFICERS 1905-1906.

President.—W. H. Grenell, Pierrepont Manor, N. Y.; First Vice-President, L. L. May, St. Paul, Minn.; Second Vice-President, G. B. McVay, Birmingham, Ala.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.; Assistant Secretary, Frank H. Funk, Bloomington, Ill.

Executive Committee.—C. N. Page, Des Moines, Ia.; S. F. Willard, Wethersfield, Conn.; G. B. McVay,

Birmingham, Ala.; M. H. Duryea, New York City; F. W. Bolgiano, Washington, D. C.

Membership Committee.—Albert McCullough, Cincinnati, O.; Alfred J. Brown, Grand Rapids, Mich.; W. S. Woodruff, Orange, Conn.

Committee on Arrangements.—C. S. Burge, Chairman; Wm. T. Phillips, F. W. Jaeger.

ORDER OF BUSINESS.

Reports of the Secretary and Treasurer; Election of Members; Reports of Committees; Reading of Communications; Unfinished Business; New Business; General Discussion and Annual Election and Installation of Officers.

Opening Session, Tuesday, June 26, 10 A. M.

PROGRAM.

"The Seed Catalogue from the Customer's Standpoint," Floyd Bralier.

"Varietal Description of Garden Vegetables," Prof. W. W. Tracy (U. S. Department of Agriculture).

"Early History of the Seed Business," Burnet Landreth (D. Landreth Seed Co., Bristol, Pa.).

"Desirable Imported Natural Grasses," Henry Nungesser (Henry Nungesser & Co., New York).

"Seedsmen and Civic Improvement," J. Horace McFarland (President, The American Civic Association).

"Co-operative Publicity through the Press Department, National Council of Horticulture," James Burdette (Chicago Tribune).

"Modern Retail Conditions," Finley Acker, Philadelphia.

A glance through the program will give but slight indications of the importance of the topics presented. Mr. McFarland's address and that of Mr. Burdette will mark an era in the seed business of which some of us have no inkling.

The Committee on Entertainment, promises a fine program.

Mayor Brant Whitloch will make the address of welcome.

The Boody House has been selected for convention headquarters. Rates on the American plan \$3.00 to \$5.00 per day. Rooms may be engaged in advance by writing to the Boody direct.

Toledo is easily accessible by rail and by three boat lines and being centrally located this should insure a large attendance.

C. E. KENDEL, Sec'y.

CLUB AND SOCIETY NOTES.

A peony exhibition was held by the Pennsylvania Horticultural Society on Thursday and Friday of this week.

June 7 and 8 are the dates set for the Rose Show at Horticultural Hall. Prize lists can be had by applying to the secretary.

The special attraction at the Florists' Club of Philadelphia meeting Tuesday next will be peonies, and there will also be a discussion as to the coming convention at Dayton. President Thomas B. Meehan will have something special to say in opening the discussion.

The Society of Southern Florists and Ornamental Horticulturists was organ-

ized at Chattanooga, Tenn., on May 22d, and elected the following officers: President, R. C. Berckmans of Augusta, Ga.; first vice-president, C. W. Eichling of New Orleans; second vice-president, C. O. Hunt of Chattanooga; secretary, Dr. J. F. Wilson of Poulan, Ga.; treasurer, Jos. Steckler of New Orleans. Forty-two members were enrolled and practically all of the southern states were represented.

PEONY NOTES.

H. A. Terry of Iowa, the peony specialist, has sold his collection to Thos. Meehan & Sons, of Philadelphia. Mr. Terry in a letter to the writer says:

"I commenced growing peonies in 1858, getting my first stock from Prince of Flushing, thirty varieties: including Humel, Pottsi, Reevesi, Fragens, Count of Paris, Festiva maxima, Lutetiana, Edulis superba, Pleaissima rosea, Queen Victoria, etc. Most of the thirty produced sold freely, and I soon had thousands of seedlings, but generally not five in a thousand would be worth propagating, and often not one. I have now a fine collection of some two hundred choicest varieties of my own raising. I am still of the opinion that Festiva maxima is the best all round white, and for pink I think none much better than Plenissima rosea. Grover Cleveland is my best dark crimson. In fancy colored varieties: Carrie, Esther, La Reine, Mrs. Pleas, Maude Hutchinson, and Stephanea among the best. I am now in my 78th year, and do not know how long I will continue to grow peonies, but I want to be surrounded with them as long as I live. They are like my children, very dear to me."

I have heard Mr. Terry's Morning Star highly spoken of. It has light delicate outer petals, and the inner ones radiate like star rays from the center. Said to be the most lovely, fragrant and winsome flower. Mrs. Harrison is also a fine one, with deep red outer petals, center delicate pink.

GEO. C. WATSON.

PHILADELPHIA NOTES.

The Waretown Rod and Gun Club will hold its annual opening on the 15th inst. Commodore Westcott has already got the invitations out and the program all fixed.

The glass factories in this vicinity shut down for the summer on the 26th ult. Prices will have a tendency to harden until the start-up in the fall. Those who have not already contracted for their needs will save money by taking the matter up without delay.

Edward D. Drown of Weldon speaks highly of the "Target Brand" scale destroyer. It is easy to mix and apply, and stays on, he says. It is also very effective. His trees are now as clean as a whistle.

William R. Smith of Washington was a recent visitor. He looks well and carries his years like an ancient Roman. His intellectual power and fighting spirit for right and truth remain keen as ever. This is personal testimony. The writer is still a bit out of breath from the last encounter.

✓ Fertilization of Spruce and Willow

Recently, when the willows were in bloom, I had occasion to make certain studies of the flower and obtained drawings which may possibly prove interesting, because they tell very well the story of fertilization, making clear a more or less hidden and secret passage in the life history of these trees. The willow is one of the very first members of the awakening plant world to put forth flowers. The bees, bestirring themselves after a winter's rest, go from tree to tree in quest of honey, and as they clamber over the staminate catkins, become dusted with the pollen, which is later brushed off upon the stigmas of the pistillate catkins. This is only the beginning of the fertilizing process. How the pollen brings about the fertility of the seed is more mysterious.

As I write the spruce is in full flower, and the young cones are beautiful indeed, in red, orange and purple against the dark needle-foliage. Various species of pines, the hackmatack, and the hemlock are either in bloom or soon will come out. The observant wayfarer passing through the woods in May or June will note drifting trains and clouds of coniferous pollen. "The immense abundance of pollen, its lightness, and its free and far diffusion through the air in Pines, Firs, Taxodium, and other Coniferae, are familiar. Their pollen fills the air of a forest during anthesis; and the showers of sulphur, popularly so-called, the yellow powder which after

present the whole vast group of seed plants in its two grand divisions, the one with openly exposed seeds, the other with seeds in a closed cavity. To take the conifer first, for that is

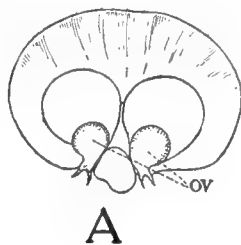


Fig. 2. A scale from female cone, with ovules (ov); B, 2 stamens with pollen sacs (ps), the pollen falling from one; these from the male flower. All magnified.

the lower, the rounded scale in figure 2 was taken from the female flower or cone, the uppermost in figure 1. A pair of young seeds on the upper side are all ready for fertilization. In fact these egg-shaped bodies are scarcely seeds yet, merely ovules, lying openly on the upper side of the scale waiting for the coming of the wind-borne pollen. In due time this falls from the stamens of the male cone (fig. 1, lower cones), and after a longer or shorter aerial voyage lodges in the openings between the scales of the female cone. One of the grains as viewed through a strong magnifier is seen in the third figure. On applying the micro-metric scale to the grain I find that its diameter is about one three hundredth of an inch. Its lightness and buoyancy are increased by two air sacs (s, s). The main body of the grain is filled with soft living substance, its organs dimly visible in

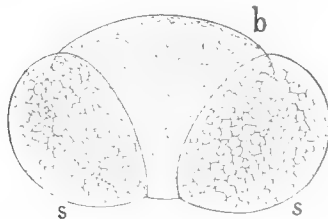


Fig. 3. A single pollen grain of spruce, highly magnified; s, s, the air sacs for buoying the grain up; b, the body.

the interior. The newly arrived pollen grain rolls down between the scales, taking a somewhat circuitous course, and perhaps it is the impetus thus gained which carries it through

the pore and into a chamber of an ovule; at any rate it finally lodges at the point where three pollen grains were actually discovered in one of my sections, as shown at *g* in figure 4. The pollen grain is now in contact with the kernel of the ovule and I presume is held by some moisture of the walls. In a short time, that is within a day or less, as I conclude from the behavior of the cones, the grain germinates. A tubular extension of the body-wall appears (*pt*), which plunges into the tissue of the nucellus, like a root into soil, and grows toward a sac, the so-called embryo-sac, shown at *s* in figure 4. Some of the living substance from the pollen grain follows down the interior of this tube, in particular a rounded body of very small size but of very definite structure and properties, bringing with it, in fact, all the characters of the spruce tree from which the pollen came. How such a mere speck of matter can be freighted with the infinite variety of inheritance which observation and experiment shows that it must convey, is one of the greatest marvels of organic life. Yet in this minute sphere within the advancing pollen tube lie the inner determinants of all the features of the species,—the general stature and form of the whole tree, the color and texture of bark, the arrangement of the branches and leaves, the shape of the latter, the form, color and arrangement of the cone-scales, the shape of future pollen grains, the character of the wood, the

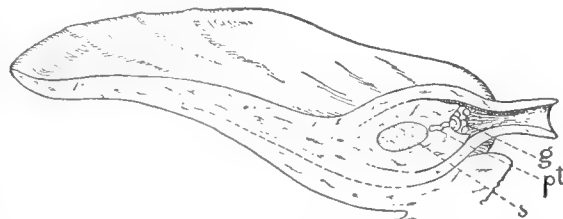


Fig. 4. Scale and ovule cut so as to expose the interior of the ovule; s, embryo sac; pt, pollen tube; g, pollen grains; magnified.

shape of wood-fibers, and the quality of the resin, and so on down to all the details of structure, gross or minute, and of habits, physiology, adaptation to particular habitats, time of flowering, longevity of the tree, etc. In short the constitution of the future spruce tree is determined by this little organism—if the word may be applied to a complex part as well as a whole plant—in conjunction with a similar body in the sac toward which the tube is now working its way. The tube finally arriving at its destination, the end wall is dissolved or burst, and the fertilizing body enters the sac, where it unites and fuses with the one already present, the first definite structure of a new spruce tree being the result. This is fertilization. From this beginning the tissues of the embryo arise.

The willow has its ovules entirely shut in and the pollen shut out. The pollen tube, therefore, which arises from the pollen grain, must travel a much longer distance than that of the spruce. The figure (fig. 6) shows the



Fig. 1. Flowers of the white spruce, slightly enlarged. Above, the female cone; below, 2 male cones.

a transient shower, accumulates as a scum on the surface of water several or many miles from the nearest source, testifies to these particulars" (Gray).

The conifers, therefore, depend for pollen-transport upon the winds rather than on insects. It is interesting to see that the lowest Dicotyledons—lowest and therefore nearest to the Gynosperms, if, indeed, the Angiosperms are related to the Gymnosperms at all—are in general wind-pollinated also; the willow being exceptional among the primitive, catkin-bearing trees. Walnuts, birches, hazels, hornbeams, alders, oaks, beeches, chestnuts, etc.—all low in the scale of Angiosperms—are wind-pollinated. As we ascend in the series, the plant shortly is seen to depend on insect aid and the flower becomes more and more adapted to the attraction and reception of these visitors.

The spruce has been an object of study also, and the drawings supplement those of the willow; for together the two plants fairly well re-

grains (somewhat larger in proportion than they ought to be) on the stigma, the tubes penetrating the loose tissue, and one that has already crept down the wall of the ovary and up to an ovule. That the tube should go directly to the pore of the ovule seems like an exhibition of intelligence until we find by experiment that such tubes in cultures may be directed in their growth by emanations of malic and other organic acids. We suppose therefore that the ovule emits some such active substance which ex-

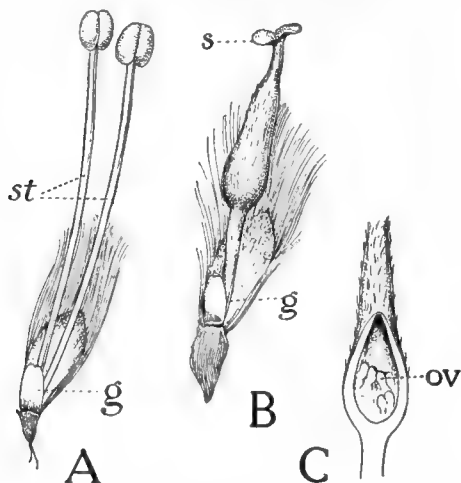


Fig. 5. Flowers of the willow. From 100 to 200 flowers like these make up a catkin: A, staminate flower consisting of 2 stamens (st); B, pistillate flower, consisting of one pistil, the stigma at s; C, pistil opened, showing ovules (ov); g, honey gland; enlarged.

ercises a directive influence over the tube's course. As in the spruce and all other flowering plants a small fertilizing body, a nucleus, is produced by the pollen grain for the fertilization of the so-called egg nucleus in the embryo-sac. After the arrival of the tube at the sac and the entrance of the fertilizing nucleus, fusion takes place and a new willow has begun to have its being.

My chief excuse for recounting what must be known, in its main outlines at least, to many readers is the illustrative value of the drawings, which naturally require a commentary. I am tempted to add some remarks on the history of the theory of sexuality in plants—for it is plain that reproduction in plants is like that of animals in the central fact of the uniting of two minute, inheritance-bearing bodies as the initial step in the formation of a new individual, and that plants therefore are truly possessed of two sexes. The history of opinion, beginning in surmise, and passing through the stages of observation, experiment and minute research to our present full knowledge, is interesting in the extreme; and even the mere suggestive sketch possible here may be worth while. We of today speak of the phenomena of pollination, fertilization, embryo and seed-formation so easily and assuredly, as things of common information, that we do not easily grasp the difficulties which early naturalists had to overcome in winning true ideas of the matter. Some of the views of old writers are fantastical and amusing, and those of some investigators not so very old now appear curiously mistaken. To us who are in the midst of the swift current

of discovery by experiment the most interesting aspect of the whole history is perhaps the delay of many centuries before any one of the numerous students of plants who touched upon the subject of reproduction, made the smallest attempt at experimental study.

Some Greek and Roman writers speak of plants as male and female; but their notions were of the most general and unsubstantial sort. "Male" and "female" as applied to plants often meant nothing more than sterile and fertile. It was indeed observed that the seed plant in some cases becomes productive only when a pollen plant is near; but Aristotle, the chief natural philosopher of antiquity, though truly gifted with wonderful insight in many things, classed this fertilizing effect among phenomena of nutrition; nor did he make any attempt to find out by experiment whether pollen is universally needed for seed-setting.

Coming down to recent times, even subsequent to the beginnings of modern science (which we count as commencing with Lord Bacon) we find the first of Englishmen to study plants attentively with the microscope, Nehemiah Grew, speaking thus of the offices of stamens and perianth: "And First, it seems, That the Attire [stamens] serves to discharge some redundant Part of the Sap, as a Work preparatory to the Generation of the Seed. In particular, that as the Foliature [petals and sepals] serveth to carry off the Volatile Saline Sulphur: So the Attire, to minorate and adjust the Aereal; to the end, the Seed may become the more Oily, and its Principles, the better fixed. And therefore the Foliature generally hath a much stronger Odour, than the Attire: because the Saline Sulphur is stronger, than an Aerial, which is too subtle to affect the Sense. Hence also it is, that the Colour of the Parts of the Attire, is usually White, or Yellow, never Red: the former, depending upon a greater participation of Aer; the latter, of Sulphur." Further on he adds: "And the Globulets [pollen grains] and other small Particles up on the Blade are as the Vegetable Sperme. Which falls down upon the Seed-Case or Womb, and so touches it with a Prolifick Virtue." All we get from Grew is the conjecture that the stamens produce the male element in fertilization.

The doctrine of sexuality in plants was really founded by Camerarius, the ingenious and lucid-minded professor of botany in the University of Tübingen, in Germany, about 1690. He experimented with various plants and proved that in general pollen is necessary for fertility. For example, to quote his words: "When I removed the male flowers of Ricinus before the anthers had expanded, and prevented the growth of the younger ones but preserved the ovaries that were already formed, I never obtained perfect seeds, but observed empty vessels, which fell finally to the ground exhausted and dried up. In like manner I carefully cut off the stigmas of Mais that were already dependent, in consequence of which the two ears re-

mained entirely without seeds, though the number of abortive husks (vesicularum) was very great". He gave what was up to his time the best account of the structure of the flower and its functions. Some of his experiments were failures, however, for some plants do set seed without pollen—for reasons which we now know. Consequently his conclusion, that plants possess true sex characters, was

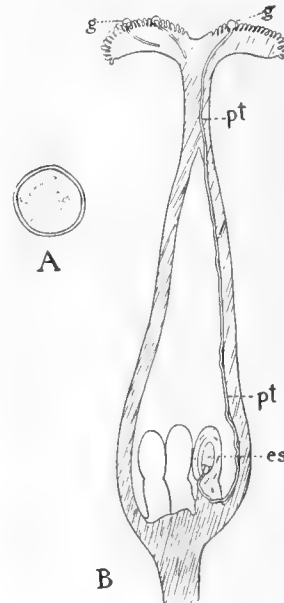


Fig. 6. A, pollen grain considerably magnified; B, lengthwise section of the female flower, showing the course of the pollen tube and 3 ovules, one split lengthwise; g, grains on the stigma; pt, pollen tube; es, embryo sac.

strongly opposed by many botanists, and disputes upon the fact of sexuality continued for the better part of a century.

Koelreuther's famous work in hybridizing settled the fact. It will doubtless surprise some who are familiar with the practical results of crossing species to learn that the first service of hybridization was to theoretical science. When Koelreuther about 1760 published his investigation he showed that the hybrid mingles the characters of the parents; and from this result he drew the important conclusion that the offspring inherits substance from both paternal and maternal parent: a demonstration and conclusion which could not have been had from two plants of the same species.

Pollen tubes were first seen by Amici, the Italian optician, accidentally, when for another purpose he was examining the stigma of a *Portulaca*, in 1823. He observed, in fact, the actual germination of the grain. Seven years later he followed the pollen tubes into the ovary and observed that one tube finds its way into the micropyle of each ovule. Soon afterwards Schleiden took up the further development, and believed that he saw the end of the tube pushed into the embryo sac and there become the receptacle in which the embryo is formed. Schleiden and his followers stoutly maintained the mistake until Amici himself, in 1846, proved the existence of a body in the embryo-sac, namely the egg-cell, which is excited by the influence of the pollen tube to further development and becomes the embryo. The exact nature of this in-



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fluence, however, and the fact of the passage of bodies of definite structure from the tube to the sac, one of them a nucleus destined to join that of the egg in fertilization, became known only in the last quarter of the 19th century through the careful researches of still living investigators, chief among them the illustrious Professor of Botany in the University of Bonn, Edward Strasburger.

R. G. Leavitt

The entire stock of bedding plants in seven houses owned by Arthur Barton of Weston, Toronto, was destroyed by fire on May 13. Insurance \$1,200.

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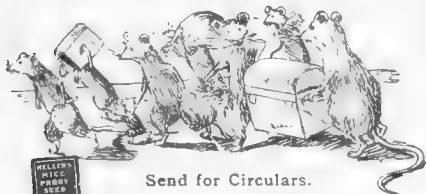
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Highest Quality Seeds from Prize Strains

Primula Sinensis	Trade Pkt.	Trade Pkt.
Crimson,	\$0.60	\$1.00
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Azure Blue, Dark Blue, Emperor William, Lord Beaconsfield, White and Yellow. Each 40c per trade pkt., per oz., \$2.00.

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A mixture which cannot be excelled for size of bloom and heavy texture. Trade pkt., 50c; 75c per 1/4 oz.; per oz., \$5.00. For Seasonable Seeds and Supplies please refer to our Wholesale List mailed free on request to all florists.

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WE wish to announce to our customers that we have secured the service of Mr. Israel Rosnosky, late of Joseph Breck's Sons of Boston. We solicit for him your favorable consideration and we assure our customers (old and new) of satisfaction in prices, quality and prompt shipments in all their dealings with us.

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Sweet Potato Plants

Yellow Jersey, Southern Queens and Red Yams, 20c. per 100, or \$1.00 per 1000. This offer good while they last or until June 10.

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SEED TRADE TOPICS.

The consensus of opinion seems to be that the season just closing has been a very satisfactory one to the seed trade. Had it not been for the severe slump in March this would have been a record year. Even with this handicap there does not seem to be much reason for complaint.

Leading seed men are finding it difficult to secure reliable help during their busy season. Competent men have permanent positions and cannot be expected to leave them and enter the seed business for a few months in view of the salaries which most of the seedsmen think they can afford to pay. To be a really up-to-date efficient seedsmen requires a high order of intelligence, and the business cannot be learned in a few weeks either. It is a most perplexing problem.

Seed growers in the east generally are complaining of a lack of rain. It is yet too early to say that crops have suffered any material damage, but a stage has been reached where rain must come soon or deterioration will begin. What with severe frosts, forest fires and drouth, Michigan and Wisconsin have suffered more or less, and rain is badly needed to prevent serious damage to the pea crop.

The seed trade of Indianapolis seems in need of a tonic. J. A. Everitt's seed business was closed out under receiver's sale not many months ago, and was bought by a brother, Wm. H. Everitt, but it is generally believed J. A. Everitt's money paid for it. After wrestling with his purchase for several months, Wm. H. suddenly took French leave, and it is again in the hands of a receiver. Mr. J. A. Everitt through the receiver offers it for sale at a bargain, and will throw in his good will. Many affect to regard this last as a somewhat negligible quantity, and as an asset rather difficult to realize on.

W. W. Rawson & Co. have secured the building at corner of North and Union streets, Boston, and will remove from their old location, which they had temporarily fitted up after

**Thorburn's
Bulbs**

Lilium Harrisii
Lilium Longiflorum

and all other BULBS for FLORISTS.

Send us your requirements for special prices.
CYCAS REVOLUTA STEMS just arrived from Japan. Sizes and prices on application.

ASPARAGUS PLUMOSUS NANUS
at \$3.00 per 1000 Seeds.
Special price on large quantities.

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NEW CROP **Bronze GALAX**

CROWL FERN CO.

Special Price
in 10,000 lots only \$5.00

DAGGER FERNS, 1.50 per 1000
Discount on Large Orders

NEW CROP FANCY FERNS, 1.50 per 1000
They are the Finest and Largest Ferns ever sold.

Bouquet Green, \$7.00 per 100 lbs. Bouquet Green Wreaths and Laurel Wreaths, all sizes and prices.

Laurel Festooning, extra fine and full, 4c, 5c and 6c per yard, and made fresh daily from the woods. Send for sample of our Laurel Wreaths \$2.00 per doz.

Bronze and Green Galax, 75c per 1000. Discount on large orders.

Send Us Your Orders for June Decorations Now
and you will get the best to be had and at rock-bottom prices.

Satisfaction guaranteed. No matter how large or small the order it will be filled promptly and with the best and freshest stock right from the woods.
Telegraph or telephone orders will receive immediate attention.

Telegraph Office, NEW SALEM, MASS. Long Distance Telephone Connection.

TELL US YOUR WANTS, WE WILL DO THE REST

CROWL FERN CO., MILLINGTON, MASS.

the fire, on July 1. The new place is very eligibly situated.

J. A. Smith, is the new manager of the Michell seed store, in place of G. C. Thompson resigned. Mr. Smith has been already three and one-half years with the firm, in charge of the florists' and bulb department. Previous to this he was nine years at Dreer's—partly in the nursery and partly in the store—and two years with the Walter Mott Seed Co., at Jamestown, N. Y. Mr. Smith is a native of London, England, where he was born 26 years ago. His many friends are much pleased at this deserved promotion, and predict for him a successful future.

JOHNSON & STOKES PART COMPANY.

Announcement is made this week that the partnership existing for the past twenty-five years between Herbert W. Johnson and Walter P. Stokes of Philadelphia, will expire by limitation July 1st next. The business will be continued as two separate concerns one by Herbert W. Johnson and associates at 217 Market street under the corporate name of the Johnson Seed Co. and the other by Walter P. Stokes at 219 Market street under the name of Walter P. Stokes. The employees of the old firm are divided up among the two new concerns. The separation is reported to be an entirely amicable one.

CATALOGUES RECEIVED.

W. Atlee Burpee & Co., Philadelphia, wholesale vegetable seed list for summer sowing.

"Have you a green head?" is the title of a folder issued by Hughes, Florist, 690 West Van Buren street, Chicago, to introduce "grass growing heads" to his customers. It is humorously written, answers all the questions and will help to sell the goods.

BUSINESS CHANGES.

A. J. Fellouris has moved to 52 West Twenty-eighth street, New York.

Mrs. R. S. Estill has taken the business of Miss Hamilton at Moberly, Mo.

The new firm of Canger & Ghormley is located at 27 State street, Chicago. Mr. Canger was formerly a member of the firm of Bohannon & Canger and Mr. Ghormley has been connected with the North Side store of Fleischman.

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Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

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ROSES								
Am. Beauty and Edgely Fan. & Sp.	25.00	to 35.00	15.00	to 20.00	15.00	to 20.00	8.00	to 20.00
" Extra.....	10.00	to 24.00	10.00	to 12.00	10.00	to 12.00	6.00	to 8.00
" No. 1.....	6.00	to 15.00	6.00	to 8.00	6.00	to 8.00	4.00	to 6.00
" Lower grades.....	2.00	to 4.00	3.00	to 4.00	1.00	to 5.00	.50	to 2.00
Bride & 'Maid—Fan. & Sp.	6.00	to 10.00	6.00	to 8.00	6.00	to 8.00	5.00	to 6.00
" Extra.....	4.00	to 6.00	2.00	to 3.00	4.00	to 6.00	3.00	to 4.00
" No. 1 and Lower gr.	2.00	to 3.00	1.00	to 2.00	1.00	to 3.00	.35	to 1.00
Liberty, Fancy.....	8.00	to 10.00	.....	to	12.00	to 15.00	6.00	to 8.00
" Ordinary.....	4.00	to 6.00	.....	to	2.00	to 8.00	.50	to 3.00
Richmond, Fancy.....	8.00	to 10.00	10.00	to 12.50	12.00	to 15.00	6.00	to 10.00
" Ordinary.....	4.00	to 6.00	4.00	to 6.00	2.00	to 8.00	.50	to 3.00
Golden Gate, Fancy.....	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00	3.00	to 5.00
" Ordinary.....	3.00	to 4.00	1.00	to 3.00	1.00	to 5.00	.50	to 1.00
Chatenay, Fancy.....	6.00	to 10.00	4.00	to 6.00	6.00	to 8.00	3.00	to 5.00
" Ordinary.....	4.00	to 6.00	1.00	to 3.00	1.00	to 5.00	.50	to 1.00
CARNATIONS								
Fancy.....	1.50	to 4.00	1.50	to 2.00	2.00	to 3.00	1.00	to 1.50
Ordinary.....	.75	to 1.00	.75	to 1.00	1.00	to 2.00	.50	to .75
MISCELLANEOUS								
Cattleyas.....	.....	to .....	.....	to	50.00	to	40.00	to 60.00
Lilies.....	6.00	to 12.00	6.00	to 10.00	6.00	to 10.00	5.00	to 8.00
Callas.....	6.00	to 12.00	6.00	to 10.00	6.00	to 10.00	5.00	to 8.00
Lily of the Valley.....	2.00	to 4.00	3.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Paeonies.....	2.00	to 6.00	.....	to .....	.....	to	6.00	to 8.00
Sweet Peas.....	.50	to 1.00	.25	to .50	.50	to 1.00	.15	to .50
Mignonette.....	.....	to	1.00	to 2.00	1.00	to 2.00	.....	to 1.00
Adiantum Cuneatum.....	.50	to 1.00	.....	to 1.00	1.00	to .....	.75	to 1.00
" Croweanum.....	.....	to .....	.....	to	1.00	to 1.50	.....	to 1.50
Smilax.....	10.00	to 15.00	12.00	to 15.00	15.00	to 20.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	25.00	to 50.00	50.00	to .....	.....	to 50.00
" " & Sprengeri bunches	35.00	to 50.00	25.00	to 50.00	50.00	to	20.00	to 35.00
Lilacs per 100 bunches ..	25.00	to 50.00	to	to	to
Snapdragon.....	to	to	to	to

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37-39 Randolph Street, CHICAGO.

Roses and
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A Specialty.....

WHOLESALE
GROWER of

CUT FLOWERS

BASKETS

are essential for June commencements. Prices 15 cents to \$1.25 each.

A good collection of say a dozen assorted sizes and varieties, costing you from \$5.00 to \$25.00 for the collection, would result in bringing you orders. All styles and shapes. Selections that will please you and cost to correspond.

A NEW LABOR SAVER.—THE F. F. PIN. The Fern Fastening Pin is a light, strong hair pin made specially for design work. The idea you have been looking for for years. The price is so reasonable that every one can use it. \$1.50 per box containing from 10 to 11 thousand each.

OUR TWENTIETH CENTURY PLANT STAND. Is a hit! See our last week's ad. for full description.

OTHER SEASONABLE SUPPLIES. Variety unlimited.

THE FLORIST SUPPLY HOUSE OF AMERICA.

H. BAYERSDORFER & CO., 56 N. 4th St., Phila.

CUT FLOWER MARKET REPORTS

BOSTON Decoration Day business has arrogated to itself all the interest attaching to the flower business of this neighborhood for the past few days. It has been in all respects a conspicuous floral record-breaker. As usual, the demand has been for material suitable for low-price work and has come largely from the country and suburban districts. In American Beauty roses the short-stem grade held sway. In other roses similar conditions controlled output and price. In carnations the sale was prodigious, colors having preference over the white varieties. Lily of the valley—the well-grown indoor stock—found a serious impediment in the outdoor crop which was just in its prime. The demand for astilbe was hardly as heavy as expected, and sweet peas did not make the record they did last year on this occasion. Double flowered stocks were superb in white, pink and purple, and sold well. The single flowered variety was worse than useless, and growers who had given their space and time to its cultivation had another jolt; nobody wants it. There was no disposition to exact or to pay increased rates on any flower, so far as we have learned. This is one of the reasons for the floral popularity of the day.

Up to the time of mailing this report the prospects are unmistakably for a record-breaking Memorial Day business. Everything in the line of cut flowers, with the exception of a few American Beauties and out-door lily of the valley is sold out in the wholesale markets. Full report next week.

COLUMBUS It has settled into warm summer weather, and in all lines we are beginning to slack down. Of course the sales of bedding plants are still very large, and will continue so until after Decoration Day. Peonies have come and are most welcome. Sweet peas are in good supply and go fast. Outdoor lily of the valley is much in demand. Decoration Day has helped prices this week; Enchantress, Lawson and other good carnations have sold well. The season here for bedding plants has been a splendid one; geraniums have been as usual the leaders with enormous sales. The

seedsmen are on their last run for the season, and it has certainly been a good one.

LOUISVILLE Business conditions the previous week were in general satisfactory. There has been a steady call for carnations with enough to meet all needs, but they are getting small. Roses continue in fair quality with demand and supply about equal. Sweet peas have had a great run and are fine. Lilies can be had in small quantities but go slowly. Excellent peonies are in and they sell well. Greens, with the exception of fancy ferns, are in satisfactory supply.

NEW YORK The general supply of flowers for Decoration Day was affected somewhat by the all-day rain of Monday with cool temperature. Out-door stock was consequently not as abundant as it would have been had weather conditions been different. Peonies were set back considerably, but there was a fair supply in the market and prices were satisfactory. American Beauty roses were plentiful and no extra demand was felt; in fact, the large grades were decidedly slow in moving. The call was for low-priced showy stock. Of the small roses there was no overabundance and the proportion of good clean stock sold well, especially on Tuesday, but the mildewed goods, of which there was a goodly share had to go at low rates. There was a plenty of carnations but many were of poor quality; the best sold readily, particularly the colors; whites and the bright reds were not called for particularly. Sweet peas of choice grade sold well but the general quality was very inferior. The bulk of the business was with out-of-town buyers, the city trade as usual on this occasion amounting to but little. Shipments on Wednesday were light, business ditto, and nothing was done after the early forenoon.

SAN FRANCISCO NOTES.

The eastern sentiment that bet pleases the florist, plantsmen and landscape gardeners is that, apart from any sentimental considerations, the rebuilding of San Francisco is a national necessity. We find that this

city is regarded as not only the metropolis of the Pacific Coast, but the nation's western gateway, just as New York is the eastern gateway. It not only is the natural inlet and outlet of the Oriental commerce, which every year becomes more important to the nation, but by virtue of its spacious, inclosed and otherwise magnificent harbor the most practical point of military protection on the Pacific Coast frontier of the United States. Therefore we are going to rebuild, and do it right hurriedly. And let it be recorded that the first to resume business in the burnt district is a florist, a pioneer propagator and grower, John H. Sievers, whose business, conducted in the name of Sievers & Boland in one of the largest and most beautiful frescoed stores in the city, was reduced to ashes by the great fire. Within a stone's throw of the John H. Sievers Company's nursery, located within a block of the burned section of the city, Mr. Sievers and his ante-calamity partner reared this week the old familiar sign, "Sievers & Boland, Florists," on a newly constructed board structure at the southeast corner of Van Ness avenue and Chestnut street. Within this expansive structure the entire old force of employees have drawn upon the nursery and arranged a beauty scene of blooming plants, and choice cut flowers.

San Francisco has repeatedly found time to wipe her weeping eyes and express sympathy for the two rival "Floral Cities" of the state, San Jose and Santa Rosa, which were sufferers by the earthquake to the estimated extent of \$800,000 and \$1,500,000, respectively. Although sufferers to such great extent these cities were heartily drawn toward San Francisco, and with the several carloads of provisions each sent here were great quantities of beautiful flowers donated by the growers of these two inland cities. The modest Burbank, of Santa Rosa, responds to a city paper that his place and all the growers of his city were unharmed by the quake, yet the governor of the state and party who made an official inspection of Santa Rosa's damage publicly reports that "although Luther Burbank's home and experimental gardens were materially disturbed, his photographic gallery in which were a valuable collection of negatives was smashed to splinters." And in San Jose, H. Bourguignon had three houses demolished.

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	Last Half of Week ending May 26 1906		First Half of Week beginning May 28 1906			Last Half of Week ending May 26 1906		First Half of Week beginning May 28 1906	
Roses					Carnations, Fancy	2.00 to 4.00	1.50 to 2.00		
Am. Beauty and Edgeley fan and sp.	10.00 to 15.00	10.00 to 20.00			Carnations, Ordinary	1.00 to 2.00	.50 to 1.50		
" extra	0.00 to 8.00	6.00 to 10.00			Cattleyas	35.00 to 60.00	15.00 to 60.00		
" No. 1	3.00 to 5.00	4.00 to 5.00			Lilies	1.00 to 6.00	4.00 to 6.00		
" Lower grades	1.00 to 2.00	1.50 to 2.00			Callas	4.00 to 6.00	4.00 to 6.00		
Bride & 'Maid, fan and sp.	4.00 to 6.00	4.00 to 6.00			Lily of the Valley	1.00 to 3.00	1.00 to 1.00		
" extra	2.00 to 3.00	2.00 to 4.00			Paeonies	1.00 to 2.00	6.00 to 8.00		
" No. 1 and lower grades	1.00 to 2.00	.75 to 2.00			Sweet Peas, bunches	4.00 to 12.00	2.00 to 12.00		
Liberty, fancy	10.00 to 15.00	10.00 to 12.00			Mignonette	.50 to 1.00	.50 to 1.00		
" ordinary	2.00 to 8.00	.50 to 4.00			Adiantum Cuneatum	.50 to 1.00	.50 to .75		
Richmond, fancy	10.00 to 15.00	10.00 to 12.00			" Crownatum	.50 to 1.50	1.00 to 1.50		
" ordinary	2.00 to 8.00	.50 to 8.00			Smilax	10.00 to 15.00	10.00 to 15.00		
Golden Gate, fancy	4.00 to 6.00	3.00 to 5.00			Asparagus Plumosus	20.00 to 50.00	20.00 to 30.00		
" ordinary	1.00 to 3.00	.50 to 2.00			" " & Sprenger, bunches	1.00 to 25.00	10.00 to 20.00		
Chatenay, fancy	4.00 to 6.00	3.00 to 5.00			Snapdragon	1.00 to 2.00	1.00 to 2.00		
" ordinary	1.00 to 3.00	.50 to 2.00							

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TO DEALERS ONLY.

	CINCINNATI May 29		DETROIT May 22		BUFFALO May 29		PITTSBURG May 30	
ROSES								
Am. Beauty and Edgely, fan and sp.	20.00	to 25.00	20.00	to 30.00	20.00	to 25.00	25.00	to 30.00
" extra	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00
" No. 1	10.00	to 12.50	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00
" Lower grades	5.00	to 8.00	5.00	to 10.00	3.00	to 10.00	8.00	to 10.00
Bride and Maid, fan and sp.	5.00	to 8.00	5.00	to 8.00	3.00	to 10.00	6.00	to 8.00
" extra	5.00	to 6.00	4.00	to 6.00	5.00	to 6.00	6.00	to 8.00
" No. 1 and Lower grade	2.00	to 4.00	2.00	to 4.00	3.00	to 5.00	4.00	to 5.00
Liberty, fancy	6.00	to 8.00	6.00	to 8.00	3.00	to 10.00	6.00	to 8.00
" Ordinary	3.00	to 5.00	4.00	to 6.00	3.00	to 5.00	4.00	to 6.00
Richmond, fancy	6.00	to 8.00	6.00	to 8.00	3.00	to 10.00	6.00	to 8.00
" Ordinary	3.00	to 5.00	3.00	to 4.00	3.00	to 5.00	4.00	to 6.00
Golden Gate, fancy	6.00	to 8.00	6.00	to 8.00	3.00	to 10.00	6.00	to 8.00
" Ordinary	3.00	to 5.00	3.00	to 4.00	3.00	to 5.00	4.00	to 6.00
Chatenay, fancy	6.00	to 8.00	6.00	to 8.00	3.00	to 10.00	6.00	to 8.00
" Ordinary	3.00	to 5.00	4.00	to 6.00	4.00	to 8.00	4.00	to 6.00
CARNATIONS								
Fancy	3.00	to 4.00	2.00	to 3.00	2.50	to 3.00	3.00	to 4.00
Ordinary	1.00	to 2.00	1.50	to 2.00	1.50	to 2.00	2.00	to 3.00
MISCELLANEOUS								
Cattleyas	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00
Lilies	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00
Callas	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Lily of the Valley	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Paeonies	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Sweet Peas	2.50	to 3.50	2.50	to 3.50	2.50	to 3.50	2.50	to 3.50
Mignonette	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Adiantum Cuneatum	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
" Croweanum	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Smilax	12.50	to 15.00	12.50	to 15.00	12.50	to 15.00	12.50	to 15.00
Asparagus Plumosus, strings	25.00	to 30.00	25.00	to 30.00	25.00	to 30.00	25.00	to 30.00
" " & Sprenger, bunches	25.00	to 30.00	25.00	to 30.00	25.00	to 30.00	25.00	to 30.00
Lilacs per 10 bunches	40.00	to 50.00	40.00	to 50.00	40.00	to 50.00	40.00	to 50.00
Snapdragon	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50

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to 721.

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Asparagus Plumosa, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kastling, 385 Ellicott St., Buffalo, N. Y.

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CANNAS.
A. T. Boddington, 342 W. 14th St., N. Y.
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10,000 fine potted stock ready to plant, 20 best sorts. List free. Benjamin Connell, West Grove, Pa.
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E. H. Pye, Upper Nyack, N. Y.
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Agave Americana (Century Plant) from 2 1/2 to 3 and 4 inch pots, cheap. Send for price lists. James M. Lamb, Fayetteville, N. C.
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Coreopsis lanceolata, 2-1/2 in. pots, \$2.50 per 100. E. Y. Teas, Centerville, Ind.

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Boston and Scott.

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Wm. W. Edgar Co., Waverley, Mass.

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FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2
Bowery, New York.

FLORISTS' FERTILIZER.

A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address J. W. Barwell, Blatchford's Calf Meal, Animal and Poultry Foods, Fertilizers, Karbó Dip, Seeds, etc., Waukegan, Ill. Established at Leicester, England, in 1800.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St.,
Boston, Mass.

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G. A. Sutherland Co., 34 Hawley St.,
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A. M. Herr, Lancaster, Pa.
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Hermann Schoenfeld, 86th & Crothers Aves.,
Phila., Pa.

Thos. DeVoy & Son, Poughkeepsie, N. Y.
Geranium, Telegraph.

Geraniums. If you are short on stock write us about our "Special Bench Plants, also 2 1-2" and Rooted Cuttings, The W. T. Buckley Co., Springfield, Ill.

GERANIUMS, large stock of strong plants in bud and bloom, 3 in., \$5.00, 4 in., \$6.00 per 100; BEGONIAS, in bud and bloom, 3 in., \$6.00 per 100; AMERICAN BEAUTY, fine 2 year old bench plants, \$7.00 per 100, Dorothy Perkins, Ruby and Crimson Rambles, in 2 1/4 and 3 in.; DRACAENAE INDIVISA, 3 in., \$1.20; 4 in., \$1.80; 5 in., \$2.50 per doz; VINCA VARIEGATA, 4 in., \$7.50 per 100; ASPARAGUS SPRENGERI, 2 1/4 in., ready to shift, \$1.00 per 100; FOXGLOVE and other herbaceous stock. Large stock of fine CHRYSANTHEMUMS and CANNAS. Can make prompt shipment. Send for stock list. Cash with order, please. REEDS LAKE FLORAL COMPANY, Mich Trust Bldg., Grand Rapids, Mich.

GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin,
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Standard Plate Glass Co., Boston.
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Glass, French and American "White Rose" brand. Stenzel Glass Co., 2 Hudson St., New York.

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GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for
Florists.

Mineralized Rubber Co., New York.
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Holly-Castle Co., 49 Federal St., Boston.

HONEYSUCKLES.

Japanese honeysuckles, fine for vase and
box work, strong plants, 2 1/2 in., \$2.50 per
100. Harvey B. Snow, Camden, New York.

HOT-BED SASH.

The A. T. Stearns Lumber Co., Neponset,
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PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PEONIES.

The Cottage Gardens Co., Queens, N. Y.
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PIPE FITTINGS.

Pipe, Valves and Fittings, Cuyler &
Mohler, Baltimore, Md. Manufacturers'
prices, F. O. B. your railroad station. Im-
mediate shipment. Try us.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PUTTY.

Benj. Hammond, Fishkill on Hudson, N. Y.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla. Tele-
graph or mail orders promptly filled. Long
distance telephone connections.

RHODODENDRONS.

John Waterer & Sons, Ltd., American
Nursery, Bagshot, Eng.
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Richmond roses, 21-2 in. pots, strong, vig-
orous stock, \$8.00 per 100; \$70.00 per 1000;
4000 plants. Joy & Son Co., Nashville,
Tenn.

Roses, 21-2 in. pots, Kaiserines and 300
President Carnots, \$4.00 per 100, \$35.00
per 1000. Cash with order or good refer-
ence. Wm. F. Kasting, 385 Ellicott St.,
Buffalo, N. Y.

Roses, Baby Rambler, the strongest dor-
mant stock in the country, \$25.00 per 100;
2 1-2 in. pot plants, \$7.00 per 100, \$65.00
per 1000. Brown Bros. Co., Rochester,
N. Y.

21-2 in. pots, ready now. Baby Ram-
blers, Teas, H. P. Roses, 50 varieties, at
\$30.00 1000; Crimson Ramblers, \$25.00 1000;
Baltimore Belle, Dorothy Perkins, Pink,
White and Yellow Ramblers, Queen of
Prairie, Seven Sisters, etc., at \$20.00 1000.
Gilbert Costich, Rochester, N. Y.

The beautiful new pink rose, MISS KATE
MOULTON, is the queen of all pink roses.
It's a winner and you should grow it.
Price, \$30.00 100; \$500, \$125.00; 1000, \$200.00,
5000 and upwards, \$175.00 per 1000. Min-
neapolis Floral Co., Minneapolis, Minn.

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SEED CASES—MICE PROOF.

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SMILAX.

Seedling smilax from flats, 25c per 100,
\$2.00 per 1000. Postpaid. Harvey B. Snow,
Camden, New York.

STEAM TRAP.

E. Hippard, Youngstown, O.

SWEET POTATO PLANTS.

Jersey and red yam sweet potato plants
ready to ship, 20c per 100; \$1.00 per 1000.
Cash, please. S. J. McMichael, 142 Lar-
kins St., Findlay, O.
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Vinca minor var., 2 1-2 in. pots, \$4 per
100. E. Y. Teas, Centerville, Ind.

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WATER LILIES.

Hardy water lilies, white, pink, yellow
and red. Send for price list. W. J. Rich-
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Wirework. Write for our catalogue.
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York.
A. Moltz, 55-57 W. 26th St., New York
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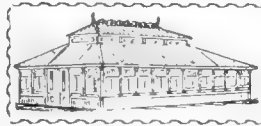
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WEED KILLER.

Fairmount Chemical Co., Broad & Fair-
mount Aves., Philadelphia
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The advertisers in these columns
are trustworthy. Give them your
business.

**GREENHOUSE
REASONS.**

Reasons are plentiful why **Premiers** are the best built. They are portable as well as durable—artistic as well as modern. You can see its superior **outside** points by its appearance; — the **inside** points of supremacy are proved by long wear — longest wear. They're all the same, from smallest to largest, — none of them ashamed to show their **ins** as well as their **outs**. We have had experience in greenhouse construction — that's the reason. Send for illustrated booklet No. 45.

**CHAS. H. MANLEY,**

Premier Mfg. Works,
ST. JOHNS, MICH.

**HORICUM****KILLS SAN JOSE SCALE**

Made by **HAMMOND'S SLUG SHOT WORKS,** Fishkill-on-Hudson, N. Y.
SOLD BY SEED DEALERS OF AMERICA.

Glenside, Pa., March 31, 1906.

HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.
Gentlemen: Seeing "Horicum" mentioned in Monthly Bulletin of Div. of Zoology, Penna., I would thank you to inform me where I can get a supply, say about a gallon for trial.

The San Jose Scale is very bad around this section and could no doubt push sale of the solution, especially as it is spoken of so highly in above Bulletin.

Your early reply will oblige, Yours respectfully,
P. S. Glenside is twelve miles from Philadelphia.

H. J. HINDS.

**GREENHOUSES BUILDING AND
PROJECTED.**

Keene, N. H.—W. M. Foley, one house.
No. Adams, Mass.—F. H. Pratt, one house.
Arctic, R. I. H. E. Barbour, one house.
Tewksbury, Mass.—Albert Roper, one house.
Cromwell, Conn.—A. N. Pierson, rose house.
Cleveland, O.—Bate Bros., range of houses.
Toledo, O. A. N. Peck, range of houses.
Chicago, Ill.—H. F. Scheuttler, range of houses.
Topeka, Kan.—Osawatomie Asylum, one house.
East St. Louis, Mo.—August Eggert, one house.
Madison, N. J. Righter & Barton, four houses.
Rahway, N. J.—C. E. Bowman, one house, 30x100.
West Grove, Pa.—Green Bros., three houses, 14x96.
Easton, Pa.—A. Kleinhaus, one house, 10x300.
Baltimore, Md.—John Wagner, one house, 30x100.
Sheldon, Ill.—Alfred Runnion, one house, 20x110.
Fremont, Neb.—C. H. Green, one house, 26x150.
Findlay, O.—S. J. McMichael, two houses, 23x180.
Spring Valley, N. Y.—Alex. S. Burns, Jr., two houses.
So. Norwalk, Conn. R. E. Morrisson, one house.
Riverside, Ill.—Schmidt & Meyer, range of houses

LIST OF PATENTS.

Issued May 8, 1906.

819,721. Land Roller. Royer S. Buch, Elizabethtown, Pa.
820,150. Fruit Cutting, Pitting and Spreading Device. A. L. M. Stripling, Escondido, Cal.
820,198. Greenhouse. Carl Ickes, Chicago, Ill.

**SAVE THE BLOOMS!****NIKOTEEN**

DOES NOT INJURE SENSITIVE PLANTS. USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT. 200 POUNDS TOBACCO IN ONE PINT NIKOTEEN.

Nicotine Mfg. Co., St. Louis, Mo.

PATENTS**Trademarks and
Copyrights**

Send your business direct to Washington. Saves time and insure better service. Personal attention guaranteed. Twenty-five years' active practice. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
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BY SLIPPING A**PEERLESS GLASS REPAIR CLAMP**

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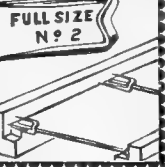
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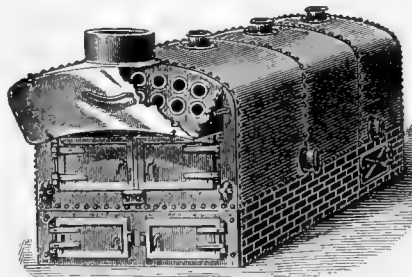
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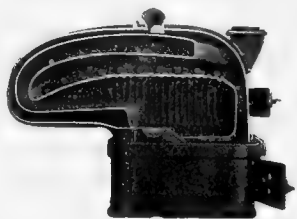
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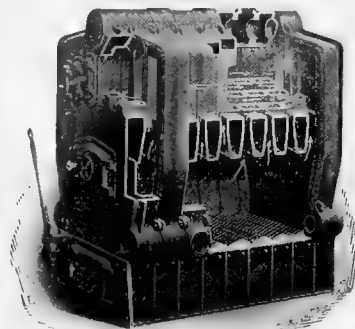
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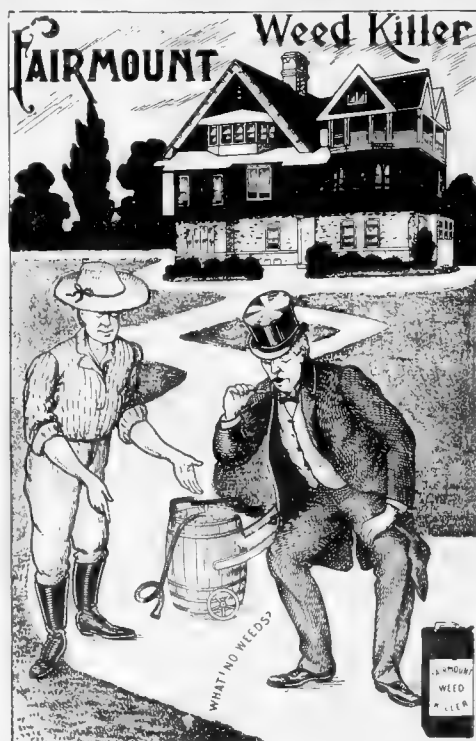
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HORTICULTURE

Vol. III. JUNE 9, 1906 No. 23



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JUNE 9, 1906

NO. 23

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Dendrobium nobile



The subject of the accompanying illustration is a well flowered, fairly good type of *Dendrobium nobile* one of the most popular and easiest managed of this large and polymorphic genus. The species itself is variable and includes many named and unnamed varieties which are quite distinct. It is a native of the Himalayas and Eastern Asia and is imported in fairly large quantities. Its distribution is large and it is so easily grown and propagated that there is little danger of the species ever becoming extinct.

During the growing season the plants should have plenty of heat and moisture, a temperature ranging from 70 degrees to 90 degrees F. and a relative humidity of about 80 per cent. will be just about right. As the growth is made in the summer months, these conditions are easily maintained. In autumn and winter somewhat drier and cooler treatment should be given, but the common practice of carrying dendrobiums into a cool house and keeping them dry as soon as growth is finished is harmful and unnecessary. Sufficient sunlight should be given to ripen the growths, but the pseudo-bulbs should not be allowed to shrivel. As Mr. Cameron says in his notes on *Thunias*, *HORTICULTURE*, May 5th: "Other conditions being right the question of compost is not very important." Still the best for dendrobiums is one that will allow plenty of root aeration and dry out quickly enough to allow the application of stimulants during the growing season. Peat and sphagnum in proportions of 3 of peat to 1 of sphagnum makes a healthy rooting-medium. It was considered the right thing in England, not many years ago, to pot dendrobiums so firm that the newly-potted plant might be lifted by the pseudo-bulbs and swung around a person's head without the plant coming out of the pot; such potting is not to be recommended. The plant should be made so firm that it won't shake loose in

handling, but without wedging. Baskets or perforated pans are better than pots for dendrobiums as in such receptacles there is less probability of the compost becoming sour.

Most dendrobiums can be propagated by laying down pieces of old pseudo-bulb on sphagnum moss and in a favorable temperature the buds at the node will develop into young plants. When air growths make their appearance they should be taken off with a portion of the pseudo-bulb before the roots become very long as roots which are developed in air will die when put into compost. The flowers are borne on two-year-old growths so that, if desired, the whole flowering growth may be cut without injury to the young growth.

James Hutchinson

Black Aphid

Columbus, Miss., May 29th, 1906.

Editor *HORTICULTURE*.

Dear Sir:—I have some young apple trees, that are covered with little black lice, especially under the leaf. I sprayed them twice with Sulphur Tobacco Soap, but it did not do them much good. Now would you please let me know, what would be the best thing to do for them to remove the lice and keep them nice and clean.

Hoping to hear from you immediately and by so doing you will greatly oblige,

Yours very truly,

EDWARD E. BUDER.

The lice, being sucking insects, require a contact poison, to kill them by penetration and suffocation, the standard solution for this purpose being kerosene emulsion. This is easily made by grating one-half pound of whale oil or laundry soap into one gallon of boiling soft water, or hard water softened by the addition of soda or borax. When the soap is dissolved it is removed from the fire and two gallons of kerosene is slowly added while the mixture is hot. It is then churned for ten or fifteen minutes until it has passed through a milky stage and become creamy. The churning is very important and to be effective the spray must reach the creamy consistency. An easy way to do the churning is to put the solution into the spray machine tank and pump it back into itself for several minutes.

This gives a stock solution which will keep for several weeks. For use it is diluted just before being applied at the rate of one part of the stock solution to nine parts of water.

Whale oil soap one pound to seven gallons of water is another good contact insecticide.

Bowker's Insect Emulsion used at the rate of one gallon to twenty gallons of water is also valuable where a prepared spray is desired.

It must be borne in mind that the lice are very rapid breeders so if a few escape they will quickly breed enough to badly reinfest the trees in a few days. For that reason frequent and thorough sprayings are necessary, for to be effective the spray must touch the insect. This is practically impossible to accomplish the first time because of the small size of the lice and the rolling of the leaf, due to their depredations, which partly protects them. However, persistent work will surely win out, and on the trees are clean it will be an easy matter to keep them so.

R. S. Adams.

British Horticulture

AMERICAN AND BRITISH METHODS

An interesting paper from the pen of Professor Corbett, of the Department of Agriculture at Washington, was read at a meeting of the Royal Horticultural Society, on May 15th, entitled "Some Phases of 20th Century Horticulture in the United States." Some striking details were given of the rapid growth of the great centres of population, and the perfected railway facilities for shipping produce in the States. Contrasting the two countries, he considered that the ornamental horticulture of England surpassed that of the United States, but the commercial horticulture of America completely outstripped that of England. In both cases, however, the levelling process was progressing rapidly, and he looked forward to the time when, by means of improved railroad facilities, the English market gardener would regard his work more as a commercial speculation than as a mere hobby. Professor Corbett might also have included the motor, for this modern method of locomotion is likely to play a more important part in future developments.

THE TEMPLE SHOW

Elaborate preparations are being made for the annual show of the Royal Horticultural Society in the historic Temple gardens in London. This is the event of the horticultural year, famous for its magnificent display of flowers and assembly of fashionable people. The show opens Tuesday, May 29, and is continued on the two following days. Orchids usually form an attractive feature. Messrs. Sander & Sons of St. Albans are making a good display in this department. Foremost in their costly collection will be *Cattleya Schröderæ* the Baron, which is considered the most wonderful *C. Schröderæ* ever exhibited, and *C. S. Princess Ena*. Many white species of *cattleya* will be seen, besides a remarkable new hybrid of *zygopetalum*, a very fine yellow-flowered *lælio cattleya* hybrid, etc. Amongst the rare and interesting collection to be staged by Sir Frederick Wigan is *Zygopetalum Rœblingianum*, sent from America to be sold for the benefit of the new Horticultural Hall Fund, and bought by Sir Frederick for 50 guineas. Messrs. W. Bull & Sons will have some orchids in their group, notably *Lælio purpurata* Rex, a superb variety, with an intensely colored lip, and very bright sepals and petals. Rhododendrons are usually a popular line at the Temple show, and in this branch Messrs. John Waterer and Sons of the American Nurseries, Bagshot, are usually to the forefront. Their large and varied collection has been further augmented by White Pearl and B. de Bruin, and several favorites will be seen, such as Pink Pearl, Michael Waterer, Vats Waterer and Fred Waterer, who so exquisitely represent the firm's name. In the grounds the firm will have a collection of hardy shrubs, conifers, hollies, etc.

ROSES AND CARNATIONS

Messrs. B. R. Cant and Sons who have won many honors as rosarians, will show their newest hybrid tea, Nance Christy, which has large semi-double flowers of a delicate shade of salmon-pink, and has the great advantage of prolonging its reign when others fade. Fit companions will be found in Mrs. O. G. Orpen, the rosy pink climbing Damask, Maharajah, one crimson pillar variety, and Blush Rambler. Roses in pots will repre-

sent the glories of the nurseries of Messrs. Wm. Paul & Son. In all their summer radiance will be seen Waltham Bride, Lady Gay, Hiawatha, David R. Williamson, Dr. William Gordon, Dora, Celia, Earl of Warwick, Warrior, Wedding Bells, etc. Messrs. W. Cutbush and Son are exhibiting the new rambling rose, Mrs. F. W. Flight, which has already hosts of admirers, and Mrs. Wm. H. Cutbush, the new polyantha rose. Carnations will also be a strong feature, including a new scarlet King Arthur. The tree peonies sent out from the nurseries of Messrs. Kelway and Son enjoy a world-wide reputation. Amongst the most popular of the newer ones is James Kelway, a semi-double flower of a rich rose tint, verging on scarlet, with a dark carmine centre. Leading varieties of pyrethrums and delphiniums will enhance the attractiveness of the display.

MISCELLANEOUS EXHIBITS

Mr. A. J. A. Bruce devotes his attention chiefly to *sarracenias*. The newest ones comprise *S. crispiana*, produced by a cross with *S. Courtii* and *Sanderiana*. The pitchers are 18 inches high, with slender base, the lids being two inches wide, recurving over the mouth. The color is light crimson with white mosaic markings. *S. Wilksæ* is a result of a cross between *purpurea* and *melanorhoda*. The pitches are 18 inches high, with a green ground, heavily lined with brightest crimson. Messrs. Stark and Son are showing a new *tropæolum* with variegated foliage. At the stand of the Craven Nursery Co. an interesting display will be made with the pure white variety of *Primula farinosa*, recently discovered in one locality in the Craven highlands. The firm have a new *tiarella*, named *superba*, a splendid vivacious plant, at three times the same of *T. cordifolia*, and entirely different in habit, throwing no stolons, but forming a dense clump in which the year's new leaves, russet, red, and pink, make a lovely contrast with the sombre note of last season's foliage, lying round the plant in a ring. From the centre of the mass rise innumerable stalwart rosy stems, having clouds of delicate flowers with pinkish antlers, which continue in bloom for a protracted period.

W. H. Aclsett.

London, Eng., May 26, '06.

A Field of Hyacinths in Bloom at Hillegom, Holland

SEE FRONTISPIECE

Seldom have weather conditions in Holland been so favorable for a perfect bulb crop as during this spring.

The hyacinth crop is particularly liable to injury by adverse weather. Severe frost destroys the flowers and foliage of blooming hyacinths, and interferes with the development of the bulbs. There has been no severe frost this season and the bulbs are attaining a splendid growth which needs only moderate warmth and sunshine to give them firmness and solidity as they mature. Prices are likely to rule about the same as last year.

Narcissi and tulips are less dependent upon warmth and sunshine. Both promise good crops. In narcissus the present conditions indicate a plentiful supply of all

popular varieties and prices about the same as last year. The better class of large trumpet varieties, such as Emperor, Empress, Horsfieldi and Sir Henry Irving are now low enough in price to tempt the commercial grower.

The tulip situation has changed materially from former years. The American varieties, as the Hollander designates the sorts we buy for forcing, including La Reine, Cottage Maid, Rosa Mundi, Huikman, Yellow Prince, Keizer Kroon and Duchess of Parma will be higher in price, especially the two last named. This advance is largely due to the enormous yearly increase in demand for these sorts in the United States for commercial purposes.

Hints on Boilers and Heating

In previous articles we have drawn attention to the importance of selecting a good boiler, location of boiler cellar, arrangement of pipes, etc. These are not the only essentials to be considered in a heating apparatus. What you contemplate growing is also an important item. If the product is to be cut flowers—such as roses, carnations, gardenias, chrysanthemums, violets, etc., all of which require various temperatures to produce the best results, the apparatus must be easily and quickly controlled. This result can best be obtained in a hot water apparatus by the use of small pipes, not over two inches in diameter; pipes containing a larger body of water cool off too slowly when quick action is required.

Gate valves giving full opening of the pipes should be placed on each run on flow and return. Valves with smaller openings than the pipe check the circulation and are useless. The ancient method of regulating the temperature in the house at the boiler and omitting valves on the runs, has been abandoned by progressive florists and gardeners.

Coils should be properly distributed; in a house running east and west place more pipe on the north side than on the south, with a proportionate amount through the center; in houses running north and south the larger amount should be placed on the west side. The ends of houses should be well taken care of, with sufficient pipe to heat the glass. It often happens this is not done and the result is cool ends and an unequal temperature quite a distance in from the ends.

The importance of maintaining as uniform a temperature as possible in the water while circulating through an apparatus can not be over estimated, as this gives a more uniform temperature in the house. It is much more difficult to regulate an apparatus properly where the temperature of the water varies from 30 degrees to 50 degrees in flow and return than where the variation is only slight, say from 10 degrees to 15 degrees. To keep the temperature where wanted on a cold day or night, and to reduce the temperature quickly when the sun comes out in the morning are the requisites necessary in an up-to-date apparatus. This result can be obtained in two ways: Uniform temperature of water with sufficient radiating surface or an excessive amount of radiating surface when the temperature of the water varies and apparatus properly valved.

In an ordinary gravity system the temperature of the water will vary from 30 degrees to 60 degrees, the average temperature being from 140 degrees to 170 degrees depending on conditions, arrangement of apparatus, etc. The quicker the circulation the better the results.

X.

Instruction in Landscape Gardening

Editor of HORTICULTURE:

Dear Sir: I noted in your issue of last week an extract from the editorial page of the National Nurseryman commenting on the recent action of the Gardeners' and Florists' Club of Boston, regarding the establishment of a school of instruction for gardeners in horticulture and landscape gardening. The criticism of the National Nurseryman is undignified and ill-considered, it being quite evident that it was made with little knowledge of the subject under criticism.

A copy of the report of the committee is enclosed which will perhaps bear out this assertion.

REPORT OF SPECIAL COMMITTEE OF THE GARDENERS' AND FLORISTS' CLUB OF BOSTON.

Mr. President:

Your Committee appointed to consider and report on the matter of the establishment of a school of instruction in Horticulture and Landscape Gardening, for gardeners, under the auspices of the Gardeners' and Florists' Club of Boston, would report as follows:

In the opinion of your Committee there is need for such a school. The tendency of the day among young gardeners is largely toward the idea that indoor gardening is the most important branch, and the one in which the gardener's skill can be the most highly expressed. This error should not only be corrected, but the way should be opened whereby the young gardener may be enabled to fill a larger space in his profession. This widening of his field, your Committee believes, should be in the direction of natural gardening, and the course should especially include instruction in the mechanical and artistic development, on natural lines, of parks and ornamental grounds. We believe this to be of the first importance, in view of the fact that the prevailing desire is for country homes and country life.

Further itemizing, your Committee would suggest that the course of instruction should comprise sketching, the making and laying out of plans, the use of the level and transit, and instruction in simple land surveying operations, also lessons in the underlying principles of landscape gardening, broad enough to include studies of treatment of specific areas of ground, planting material, preparation of ground for planting, road-building, drainage, etc.

It is as essential that gardeners should be acquainted with landscape gardening as that landscape gardeners should have a knowledge of plants and their requirements. Not that one should enter into competition with the other, but that each will understand and be helpful to the other. A gardener who has studied landscape work is a more valuable assistant to the landscape gardener than one who has to be guided at every step. A gardener on a small estate cannot be considered competent if he has not sufficient knowledge of landscape gardening to, at least, maintain the idea of designers who may have made the plan, or to make a slight change or alteration without asking for professional assistance.

Your Committee further believes that there is a desire among young gardeners that such a school should be established, and that full advantage would be taken of the privilege of attending. Therefore, in view of this presentment, it would recommend that steps be taken to open the school next October, for a course of five months, and that a committee be appointed to further perfect the scheme and study its details.

It is of importance, in the opinion of your Committee, that early action be taken in the matter, so that, if the recommendation is approved and adopted by the Club, the Committee can at once commence work on details, issue a prospectus, and open entry lists.

Signed by the Committee: John K. M. L. Farquhar, Chairman; J. A. Pettigrew, James H. Morton, James Wheeler, William N. Craig.

Very sincerely yours,



HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

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WM. J. STEWART, Editor and Manager.

The coming peony show

Next week the Peony Society, the youngest of our special organizations, holds forth at Boston. It is expected that the combined exhibition of this and the Massachusetts Horticultural Society will be a gorgeous affair, as befits the regal flower in the interests of which it is inaugurated. As a garden ornament and as a florists' useful decorative flower the peony stands in the first rank. Boston is always pleased to welcome the craft—none more so than the peony enthusiasts, who come at the season of the year when her particular attractions are most in evidence. We hope the crowd will be a big one.

Our advertisers have prospered

With the rapidly growing strength and influence of the professional horticultural press, the commercial interests of the people they serve have been extending and developing at a marvelous rate. Florists and nurserymen have been brought into touch with one another and the more progressive, taking advantage of their opportunity, are rapidly opening up new and lucrative avenues for business. The season just closing has seen much the largest aggregate of sales thus far in this country, of hardy plants, greenhouse stock, bedding plants—in fact, everything which anybody has had the courage to advertise. Horticulture is happy in the satisfaction of having been a participant and rendered creditable service in the good cause. It has the assurance of its advertisers to this effect and that is sufficient.

Rhododendrons

We feel a sincere sympathy with those of our horticultural friends who, by climate or soil or other cause beyond their control, are denied the pleasure of having and enjoying the rhododendrons which at the

present time are the glory of the gardens about Boston and along the Sound and elsewhere. The hardy rhododendron, when in congenial quarters, is easily the peer of any garden shrub. It bursts into bloom with an exultant exuberance that but few plants can equal or even approach and, when out of bloom, it is still beautiful in its dark glossy evergreen foliage. Enterprising nurserymen can confer no greater benefit than to follow up and prove and gradually bring to the front a good list of reliably hardy varieties in bright colors. Those who are working to this end can depend upon an ample public appreciation of every advance made.

The menace of insects

Attention has been called to the fact that, although our national government has full power to control the introduction and spread of insects hurtful to men or animals, it has no laws relative to those that injuriously affect plant life, and yet the total value of agricultural and forest products in the United States is very many times that of all the animals and products therefrom. The losses annually from insect depredations are appalling and yet Congress hesitates to take action in the case of the gypsy moth and browntail moth invasion—an invasion which those having the best opportunity to know, can see means inestimable destruction unless something far beyond the ability of State or individual is done, and done quickly, to check its progress. It is plainly the duty of the national government to aid in the work that is now being prosecuted locally to prevent the further spread of these odious pests and, not only that, but to enact such laws as are necessary to prevent as far as possible the importation hereafter of injurious foreign insects.

Judges' problems

The communication from Mr. Fewkes on another page of this issue will be carefully read by all who are interested in horticultural exhibitions and realize the trying responsibilities under which the judges at these affairs have to work. Any gardener with a spark of pride about him would naturally prefer a certificate to a small cash gratuity as a recognition of his exhibit. Yet it must be kept in mind that the more liberal the distribution of certificates the less their value and as soon as it becomes apparent that they are being given out other than for objects of unusual merit they will no longer be considered worth striving for. It is the duty of judges to guard jealously the issuance of these honors so that their standard of value may be maintained. We do not like to hear a competitor in the prize classes making a fuss because he was not awarded the prize he thought he should have but we do believe it to be entirely proper that the exhibitor of a novelty or other object of especial excellence should request the judges to state upon what grounds a certificate has been bestowed or withheld and the judges should always be able and willing to give reasons which will justify their action in the eyes of reasonable people.

JUDGES' PROBLEMS.

Editor HORTICULTURE:

I notice in your issue of June 2 an article signed by a lady in Pittsburg, Pa., taking our committee to task for making a certain award here in Boston, to forced specimens of *Lilium candidum*. I think it is safe to say that the lady saw neither of the exhibits referred to and as she seems to be seeking for information I will endeavor to explain the matter.

In her statement regarding the pips, she somewhat misrepresents the facts, for I did not say that the lily of the valley required only ordinary culture. If she will re-read my article carefully she will see that I intimated that a cultural certificate can be given under two conditions.

In this case the roots or pips were undoubtedly imported from Europe. In the condition received they represented the cultural skill of the growers from whom they were imported and therefore as pips simply, were not eligible for a certificate for they were not shown by the original grower. But the exhibitor who forced these pips into flower was eligible for there was an opportunity to display extraordinary skill in bringing them into flower. As I remarked in my previous article there was no more cultural excellence displayed than pertains to the regular practise of any careful grower and as there were hundreds of other subjects fully as well grown as the flowers in question, it would have been absurd to say the least to have singled them out for an award of this nature.

Now in regard to the display of *Lilium candidum*, we have the same conditions as regards the bulbs, but it was another matter with the flowers. We who were here and privileged to see and judge them were unanimous in our opinion of their quality. Only once before within my recollection of exhibition have I seen flowers of *Lilium candidum* approaching these in excellence. It may have been all in the bulbs but we doubt it very much and believe the hand that grew them was possessed of skill beyond the ordinary.

The lady speaks as though she thought it an every day matter to force *Lilium candidum* successfully but if her experience takes her back before the era of *Lilium Harrisii* she ought to know the difficulties encountered in their cultivation and that it was not from lack of beauty that their cultivation was practically abandoned.

A. H. FEWKES.

Chairman Committee on Plants and Flowers, Mass. Horticultural Society.

We have received from George Hollis specimen blooms of several of his seedling peonies, some of them blooming now for the first time. Among them are Old Ironsides, crimson magenta, a full flower without guard petals; Chieftain, light pink, wide guard petals and high centre; Pathfinder, soft pink and white, deeper flushed, a big loose bloom; Attraction, crimson purple wide guard petals and dense globular centre; Holly, rosy pink; No. 1031, Japanese deep pink guard petals and yellow tipped salmon filaments.

HARDY PLANT NOTES.

Even though the season has been exceptionally dry, shrubs and perennials have so far given an abundance of bloom. It may, however, affect the flower of the late blooming kinds.

A very good type of weigela, and somewhat new, is Abel Carrier. It has a growth similar to rosea, the flower being a beautiful rose color and not inclined to fade like other types. The *amabilis variegata* is prized for its variegated leaf, but the flowers do not show off to good advantage with such light-colored foliage. Eva Rathke has a deep crimson flower quite distinct from all others, and blooms a few days later.

The Yellow Rambler rose is fine, but as the blooms mature it is hard to associate the name with the plant, as the color changes to white. The buds are a good yellow and the flower opens a light yellow but fades to white. Its foliage is rich and glossy.

The Dawson rose is quite free—flowers rose-pink and about the size of a half-dollar. It makes a good hardy climbing rose.

It is too bad that the tamarisk is not used more extensively in shrubbery planting. The pink flowers always attract attention, and the delicate foliage is effective all through the season.

The writer saw a very pretty effect produced on the edge of an evergreen plantation by the use of *Enonymus radicans variegata*. This is often considered only as a vine, but if occasionally pruned it makes a pretty dwarf shrub.

Helenium Hoopesii is now in flower, and its color, a good deep orange, is quite distinct.

Iris "Silver King" deserves mention on account of its delicate fragrance and beautiful silvery color.

One of the earliest and showiest climbing roses is Paul's Carmine Pillar. It should be planted more generally.

Salvia nutans is making a pretty show at this period and can be recommended as a good perennial for cutting. It grows about three feet high and the pretty blue flowers have a graceful drooping habit.

An excellent time to separate and transplant the roots of the German Iris is when they are through flowering. They then make new roots and become established, thus insuring flower for next season.

In cutting peonies care should be exercised to see that not too much of the stem is cut away, as it tends to weaken the plant and reduce its flowers for next season.

WARREN J. CHANDLER

INCORPORATED.

The Griswold Greenhouse Co., Ashtabula, O. Capital, \$50,000. President, Thomas Fricker; vice-president, C. M. Stone; treasurer, J. L. Smith; secretary and manager, J. H. Rice. The establishments of Mrs. F. G. Beadt and J. H. Rice have been purchased by the company, and they propose to devote the plant to lettuce and cucumbers. Extensive additions and improvements are already under way.

WHOLESOME CHESTNUTS.

Better flowers, and plants of comelier form result if dahlias are grown with but one stem, and they are easily grown that way, even if the old tubers are planted, by just selecting one to go ahead and removing all the others. Dahlias are exceedingly susceptible to good treatment which consists chiefly, first in good soil and next in thorough cultivation of the soil from the time the plants are in the ground until frost nips the flowers and leaves. The best way to cultivate the soil is by frequent hoeing paying but little heed whether there are weeds there or not; raking does more harm than many are aware of, because it is apt to put a crust on the soil.

Chickweed is very annoying in the lawn and next to impossible to remove by hand, not to mention the expense when it has to be done on a large scale. Try raking before every mowing and see if by degrees it doesn't grow beautifully less.

On small places where nice paths easily trod are a prime consideration for the sake of comfort as well as appearance, it is a mistake to hoe them; better far to either pick out the weeds by hand or uproot them with a drawhoe than to dig up the gravel piece meal thereby softening the whole surface of the path; an occasional rolling helps also to keep paths in good order.

OBITUARY.

Hermann Rolker died May 28 at his Brooklyn, N. Y., residence after a lingering illness of nearly seven years. Mr. Rolker severed his connection with the firm of A. Rolker & Sons in 1903 after having been with them for about fifteen years, part of that time as a partner in the firm. He was 57 years old and leaves a widow and five children.

David Gray, for many years a leading florist of Brockton, Mass., died at his home in that city on the morning of May 28, aged 49 years. He had been in failing health for over a year. Mr. Gray was a native of Vermont, and came to Brockton, where he established himself in business, twenty-five years ago. At one time he held the position of city forester. He was a man of congenial temperament, and had many friends. He leaves a widow, one son and one daughter. His son, John C. Gray, is superintendent of Union Cemetery.

C. H. Kunzman, a highly respected florist of Louisville, Ky., died on May 22, aged 44 years. Mr. Kunzman had been in failing health for some time, but his death came suddenly and as a great shock to his friends and trade associates. He was a member of the S. A. F. and was for many years treasurer of the Kentucky Society of Florists, every member of which sincerely mourns his loss. He was a specialist in growing carnations and was very successful. He leaves a widow and one son. Burial was in Cave Hill cemetery.

H. W. Field, florist, of Northampton, Mass., has purchased from Dr. E. W. Higbee the block on Main street in which his store is located.

NEWS OF THE CLUBS AND SOCIETIES.

MASSACHUSETTS HORTICULTURAL SOCIETY.

Rhododendron Exhibition.

This annual exhibition was, a few years back, worth going a long distance to see on account of the splendid display of hardy and tender rhododendrons which practically filled one large hall; it has now almost lost its identity and its value as an exponent of rhododendron culture, for the entire display of these showy blooms this year occupied but a single table and the balance of the hall was monopolized by other things. It is not because rhododendrons are less grown, but apparently for lack of sufficient interest in the exhibition on the part of those who grow them. The small groups shown came from Mrs. J. L. Gardner, Mrs. A. W. Blake and George F. Fabyan, and the flowers were excellent so far as they went. Hardy azaleas made a gorgeous showing; Mrs. A. W. Blake, Mrs. J. L. Gardner, Wm. Whitman and T. C. Thurlow won the prizes. The Appleton silver medal was won by Hon. J. R. Leeson, James Cartwright, gardener, for a well-arranged group of orchids and foliage plants.

The collections of German irises from Wm. Whitman, the Blue Hill Nurseries and C. W. Parker were excellent, as were also the pyrethrums from Mrs. Gardner and Mr. Whitman. Interesting displays of foliage and flowers of hardy ornamental trees and shrubs were made by Mrs. Gardner and W. Heustis & Son, and a collection of hardy herbaceous flowers from the Blue Hill Nurseries was of the usual order of excellence shown in the exhibits by that firm. The tree peony exhibits were inferior.

J. E. Rothwell received certificates of merit for *Laelio-Cattleya* *Acis* (L. *tenebrosa* X C. *Mendelli*), and *Laelio-Cattleya* *Marguerite* (L. *purpurata* X C. *Mossiae* var. *vestalis*). The same exhibitor, E. Johanson, gardener, contributed a vase of *phalaenopsis* blooms of superb finish. T. C. Thurlow was awarded honorable mention for a new *viburnum*. Among the other prime attractions was a very extensive collection of hardy herbaceous flowers from Harvard Botanic Garden.

The next exhibition scheduled is the peony show, June 15 and 16, in connection with the exhibition of the American Peony Society.

HORTICULTURAL SOCIETY OF NEW YORK.

The Summer Show of the Horticultural Society of New York takes place on the 13th and 14th of June, in the New York Botanical Garden. On Wednesday afternoon Mr. George T. Powell will lecture on the importance of selection in propagation of plants. Exhibits of plants or cut flowers in season are requested, and should be sent to the Horticultural Society in care of the New York Botanical Garden, to arrive by noon on Wednesday.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

The Southern Floral Nursery Co., Fruitdale, Ala., submit for registration the following cannas:

Queen of Beauty; color, scarlet; foliage, dark green; height, 5 to 6 feet. A self trimmer.

Flashlight; bloom small, in close clusters; flame color; light green foliage; 7 to 8 feet.

Majestic; color, red; foliage, bluish green lined and ribbed with bronze; 7 to 8 feet.

Bronze King; an early bloomer; flowers, light red; leathery, bronze foliage; 6 to 7 feet high. A cross of *Marechal* *Valliant* on *Coronet*.

Giraffe; color, yellow, blotched and nearly covered with bright red; foliage, green, broad-leaved; 7 to 8 feet.

Moonlight; a seedling of *Mont Blanc*. Light cream color that does not fade to white; 5 to 6 feet.

Blushing Belle; blooms blush pink, narrowly edged with creamy yellow; foliage, chalky shade of green; petals, narrow; 5 to 6 feet.

Southern Pride; salmon tinted red, edged with light yellow; foliage, glossy green, edged with a narrow line of bronze; 4 to 5 feet.

Alabama; color, cardinal; 4 feet.

Mississippi; a dwarf; golden yellow flowers with a few red specks in throat; foliage thick and leathery; 3 feet.

Bucatanua; petals, 3-4 to 1 1-4 inches in width and 3 to 4 inches long, bright red; 3 to 4 feet high.

Gen. Kuroki; pink, salmon and yellow mottled and shaded; foliage, bronze; 5 feet high.

Tom L. Johnson; dark rose pink; leaves, deep purplish bronze; 6 to 7 feet.

Emerald; seedling of *Musafolia*; large, bright green leaves; 7 to 8 feet.

Perfection; seedling of *Lucilene* *Mailard*; light pink, marked on back of petal with a darker shade; 4 feet.

Daybreak; seedling of *Mlle. Berat*; shell pink, edged with cream; 4 1-2 feet.

Sunbeam; seedling of *Sensation*; large yellow flower, marked in centre with red; 4 feet.

Jumbo; bright scarlet; bronze foliage of mammoth proportions; 8 feet.

Gov. Patterson; rose pink; bright green foliage; 4 1-2 feet.

Chautauqua, Jr.; seedling of *Chautauqua*; scarlet red, bronze foliage.

Prize Essays.

Pres. W. F. Kasting offers three prizes of \$20, \$15, \$10, for 1st, 2nd, and 3rd best essays on "The best method of marketing the product of the wholesale plant and flower growers." The competition is open to all and essays must not exceed 1500 words each. Those wishing to compete are requested to send their completed manuscript to the Secretary not later than July 15. The manuscript should be unsigned, but the full address of the writer should in all cases accompany same. The awards will be made by a competent committee and the names withheld until after a decision has been reached.

WM. J. STEWART, Secretary.

FLORISTS' CLUB OF PHILADELPHIA.

An item not on the program—the regulation of the express companies—was the means of livening up an otherwise rather dull meeting. This issue was sprung by Edward Reid who thought the club ought to take united action on this constant non-suited of damage claims. The debate was taken part in by all the practised debaters and philosophers of the club; but the most incisive speech was that of W. K. Harris, who illuminated what looked like a complicated and mysterious subject with precision and despatch. The outcome of the debate was a committee on grievances consisting of Edward Reid, H. S. Donaldson, and George C. Watson, who are to see what they can do and act in conjunction with the National Society. President Thomas B. Meehan, spoke on the forthcoming convention at Dayton, and made some valuable suggestions as to strengthening and improving our national organization and gave eloquent testimony as to the good work in past years. Adolph Fahrenwald called attention to the International Horticultural Exposition to be held under the auspices of the society, and urged that jointly and severally we turn in and help to make it a success. We have never yet given an international flower show in this country but think the time is now ripe. But it will take work and money. Give both. Mr. Harris started a discussion as to whether the S. A. F. should be invited to hold its 1907 convention in Philadelphia. That matter is set down for debate at the next meeting of the club. Jno. Westcott, D. Rust and H. F. Michell were appointed a committee on transportation and G. C. Watson, Leo Niessen and E. J. Fancourt on hotels. The special subject for July will be a paper on the "Japanese Iris" by Ernest Hemming, with exhibits from different growers. The games committee announced a try-out contest of twenty games on home alleys commencing Monday the 11 inst. All active members eligible.

An exhibit of Peonies consisting of about 100 named varieties was sent by C. Betscher, Canal Dover, O., but did not arrive until the morning after the meeting. The trade had an opportunity to view them at S. S. Pen-nock's later.

NEW JERSEY FLORICULTURAL SOCIETY.

Harry O. May addressed the N. J. Floricultural Society on "Roses and Rose Growers" at their regular meeting on June 1, making therein an eloquent appeal in behalf of the American Rose Society of which he is treasurer, asking for co-operation particularly from the private gardener in interesting their employers in laboring through this organization for the most popular and generally beloved of flowers. Discussion upon cultural points was engaged in by Peter Duff, Geo. von Qualen and others.

A motion by Mr. May, was unanimously adopted, that the secretary be instructed to write to T. C. Platt of the U. S. Express Co. expressing the sentiment of the society in regard to the

recent oppressive and exorbitant rates imposed upon the growers of flowers in the State.

The floral display was large and included many fine orchids among which were a particularly fine *Cattleya gigas*, scoring 99 points, from Lager & Hurrell and a collection of white *C. Mossia* var. from Julius Roehrs Co., which received a first class certificate. A red, white and blue bouquet contributed by George Oakley, gardener for A. T. Gillispie, attracted notice. Fine oriental poppies came from Peter Duff and Wm. Reid, and crotons from President Kindsgrab. The judges for the evening were Malcolm MacRorie, Edward Roehrs and Arthur T. Caparn. JOSEPH B. DAVIS, Secy.

PENNSYLVANIA HORTICULTURAL SOCIETY.

An exhibition of peonies was held in Horticultural Hall, Philadelphia, on Thursday and Friday of last week. The lower hall was well filled, and while the number of exhibitors was not large the show was very creditable and interesting. The chief prize winners were Joseph Hurley, gardener to James W. Paul; R. D. Barclay, gardener to Clement A. Griscom, and William Robertson, gardener to Jas. W. Pepper. Mr. Hurley put up a large collection, embracing some seventy-five vases, all named, but we are sorry to report, very few of them correctly named. Mr. Hurley is not to blame for that, perhaps, but he ought at least to have looked in his catalogue to see if the flowers agreed with the description before staging them for the public to be misinformed. A horticultural society is supposed to be founded mainly for the education of the public along horticultural lines. That's why this naming business is more important than it looks to many. For instance, an amateur goes to the show we are discussing, and note-book in hand, comes to Mr. Hurley's exhibit. The most conspicuous item he sees is a magnificent vase of a large, lovely pink and white flower. He wants that one sure, and down goes the name—Dr. Caillot. But next spring imagine how he will feel when he sees the real Dr. Caillot in bloom a charming amaranth! What's the use of giving a flower show to spread such misinformation as that? Better no names at all than the wrong ones. Henry A. Dreer exhibited a collection of twenty-seven varieties. These were rather under the standard as to size, but so far as we could tell they were all correctly named.

CHICAGO FLORISTS' CLUB.

It has been a long time since this club has had a rousing old-time picnic. Fresh from the hustle and bustle of a busy season and flush with the substantial profits therefrom the members have agreed to have an outing that will fill all the requirements in refreshments, entertainment and recreation. As a result of the meeting of the special entertainment committee last Monday morning the famous Higginbotham woods at Joliet has been selected as the location and June 24 the date for the event. It will be a basket picnic and there will be baseball and other games, for which liberal prizes are provided.

Railroad tickets can be had of all

wholesalers by June 11. Everybody should secure a supply at once so the committee can conclude arrangements. Spread the news and make the gathering a big one.

AMERICAN PEONY SOCIETY

The third annual meeting of this Society will be held in Horticultural Hall, Boston, Mass., June 15 and 16, 1906. The exhibition will be in charge of Mr. James Wheeler to whom all flowers intended for exhibition must be shipped.

Express charges on all exhibits must be prepaid, and should be so marked on the boxes, as no charges will be paid by the manager.

Copies of the rules and regulations may be had on application to the secretary.

Premium list—Herbaceous peonies commercial classes—double:

Class.	1st.	2nd.	3rd.
1. Collection of varieties, one flower each.....	\$15.00	\$10.00	\$5.00
2. Twelve distinct varieties, six flowers each.....	10.00	5.00	
3. Collection of varieties in various shades of rose pink, not less than three nor more than six flowers each....	10.00	5.00	
4. Collection of varieties in various shades of salmon and flesh colored.	10.00	5.00	
5. Collection of varieties in various shades of white..	10.00	5.00	
6. Collection of varieties in various shades of cream white and light yellow.....	10.00	5.00	
7. Collection of crimson varieties, without stamens.	10.00	5.00	
8. Collection of crimson varieties, with stamens....	10.00	5.00	
9. Collection of tri-color varieties, including flowers with guard petals, collarette and centre petals of different colors....	10.00	5.00	
10. Fifty blooms, white.	10.00	5.00	
11. Fifty blooms, pink, any shade.....	10.00	5.00	
12. Fifty blooms, crimson.....	10.00	5.00	

SPECIAL PRIZES

13. Collection of six varieties introduced since 1896 one flower of each. Offered by The Gardeners' and Florists' Club of Boston.....	\$6.00	\$4.00
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Amateur Classes Open to Amateurs and Private Growers Only

	1st.	2nd
A. Collection of not less than twelve varieties, six of each.....	\$10.00	\$5.00
B. Collection of white varieties, three blooms of each variety.....	10.00	5.00
C. Collection of rose pink.....	10.00	5.00
D. Collection of salmon and flesh pink.....	10.00	5.00
E. Collection of tricolor varieties.....	10.00	5.00
F. Collection of crimson.....	10.00	5.00
G. Six blooms of any one variety.....	3.00	2.00

Prizes offered by the Massachusetts Horticultural Society. Open to all, except No. 154.

No. 138. Collection of eighteen named varieties, single or double. First prize, a silver gilt medal; second prize, a bronze medal. Donated by Kelway & Son, Langport, Eng.

No. 139. Collection of thirty or more varieties, double, one flower of each.....	\$15.00	\$12.00	\$8.00	\$6.00	\$4.00
No. 140. Collection of twelve named varieties, double, six flowers of each.....	\$12.00	\$8.00	\$6.00		
No. 141. Specimen bloom, double.....	\$2.00	\$1.00			
No. 142. Collection of twelve or more named varieties, single.....	\$4.00	\$3.00	\$2.00		
No. 143. Collection of twelve or more named varieties, Japanese single varieties destitute of pollen.....	\$4.00	\$3.00	\$2.00		
No. 144. Vase of blooms on long stems, arranged for effect in the Society's large China vases.....	\$10.00	\$6.00	\$4.00		
No. 145. Collection of six named double varieties, white, one flower each.....	\$3.00	\$2.00	\$1.00		
No. 146. Collection of six named double varieties, rose pink.....	\$3.00	\$2.00	\$1.00		
No. 147. Collection of six named double varieties, salmon pink.....	\$3.00	\$2.00	\$1.00		
No. 148. Collection of six named double varieties, red or crimson.....	\$3.00	\$2.00	\$1.00		
No. 149. Collection of six named double varieties, any other color.....	\$3.00	\$2.00	\$1.00		
No. 150. Vase of twenty-five blooms, double, white or blush.....	\$5.00	\$3.00	\$2.00		
No. 151. Vase of twenty-five blooms, double, pink or rose.....	\$5.00	\$3.00	\$2.00		
No. 152. Vase of twenty-five blooms, double, red or crimson.....	\$5.00	\$3.00	\$2.00		
No. 153. Vase of twenty-five blooms, double, any other color.....	\$5.00	\$3.00	\$2.00		
No. 154. Collection of twelve named varieties, double, one flower of each, open to non-commercial growers only.....	\$6.00	\$4.00	\$3.00		

Officers: President, C. W. Ward, Queens, N. Y.; vice-president, Wm. A. Peterson, Chicago, Ill.; treasurer, J. H. Humphreys, Germantown, Pa.; secretary, A. H. Fewkes, Newton Highlands, Mass. Manager of exhibition, James Wheeler, Horticultural Hall, Boston, Mass.

NEW YORK FLORISTS' CLUB.

Next Monday, June 11, will be Ladies' Night, also Peony Night, at the meeting of this club. Extraordinary preparations are being made by the proper officials for social enjoyment and the promise is for a gala occasion. It is expected that the exhibition will be, in all respects, a notable one.

MISSOURI STATE HORTICULTURAL SOCIETY.

The semi-annual meeting of this society will be held in the court rooms at Moberly, Mo., June 12, 13 and 14.

The Merchants Hotel will be headquarters. Rates will be given, \$1.50 per day. The Oliver and other hotels will make a rate of \$1.00 per day.

The railroads will give a rate of one and a third, on certificate plan, for round trip from all points in Missouri.

PUBLICATIONS RECEIVED.

The twenty-third annual report of the Board of Park Commissioners of Minneapolis, Minn., has been received. It is a finely printed volume of eighty pages containing much interesting information regarding the comprehensive park system under construction for Minneapolis, and many beautiful half-tone views. A portrait of ex-Superintendent Wm. M. Berry forms the frontispiece. An explanatory map is bound with the volume.

From Spokane, Wash., comes the report that the demand for Decoration Day flowers went far ahead of all previous records, the supply being entirely exhausted by noon on the day before. Customers have never been known to buy so liberally as they did this year.

SAN FRANCISCO NOTES.

April 18, and the manner of its coming to San Francisco, is still the talk of the town, and it is likely to be for some time to come. But that another day like it will never again be ushered in in these parts while the present plantsmen and floriculturists remain, they feel fully assured. They base this reassurance, they tell me, on faith they have in such scientific authorities as Dr. F. Omori, reputed to be a professional grower of fancy chrysanthemums, also professor of seismology at the Imperial University of Tokio, and whose invented seismometer is in use in the weather bureau office in Washington, and John C. Branner, professor of geology at Stanford University. These two wise men have been here ten days studying earthquakes and making deductions, and this week publicly announced that although differing as to their conceptions of the cause of the great earthquake here last month they are perfectly agreed in stating without qualification that there cannot be another destructive shock within a thousand miles of San Francisco before the year 2015!

Additional to the resumption of business by tradespeople reported last week two more of the prominent antecalamity growers and florists are now to be added to the list, namely, Pelicano, Rossi & Co., formerly Frank Pelicano & Co., at 1944 Post street, in the unburnt district, and Alex. Mann, Jr., also in the unburnt district, at 2041 Pine street.

That more than \$50,000 damage was done by the earthquake to the buildings in Golden Gate Park was made known at this week's meeting of the park commissioners. Satisfaction is found, however, in the fact that the commission directed that the work of restoration proceed immediately, funds being available. Senior member of the commission, Mr. Lloyd, said he had observed the good charitable work of Superintendent and Mrs. McLaren in aiding the streams of people that took refuge in Golden Gate Park during and after the conflagration, and upon his motion a vote of thanks was tendered the superintendent and his wife.

Professor C. M. Woodworth of the Department of Entomology at the State University is just now in receipt of an appeal from the horticultural association of Stanislaus county for aid in combatting a plague of grasshoppers, whose present devastating operations are much earlier in the season than has been their habit.

The Santa Clara County Grange this week endorsed the action of the recent mass meeting of local growers and voted to hold this season's crop of prunes at a 31-2-cent basis; also requested the board of supervisors to create the office of county entomologist.

A phenomenal weather feature the past last week of May was a soaking three days' rain storm, resulting in great damage all over the state to cherries, berries, and the hay crop. It was a phenomenon for the reason that the month of May has always been reckoned as a "dry season month." Nearly all of the receipts of cherries and the bulk of the arrivals of berries were rain damaged and had to be sold for what buyers cared to pay. Large

lines of loose cherries were turned over to the cannery at the inside quotation and great quantities of Malinda strawberries had to be thrown away. Cherry plums from Vacaville sold at 75c. per drawer and early Alexander peaches from the same place were sold at \$2 per box.

Heart aches are affecting many San Francisco florists because of the dilatory action of insurance companies in paying policy holders, and what the outcome will be the Lord only knows. It is unfortunate for this crushed community at this time that we are finding that there are both "good" and "bad" insurance companies, and it isn't much consolation to the "insured" who need their money that the State Insurance Commissioner is drawing up a "good" list and a "black" list of insurance companies which have losses in San Francisco and will send them to every insurance commissioner in the United States and to every newspaper that will print them. There are instances of good California men who have been acting as Pacific Coast agents of eastern insurance companies sending in their resignations because the companies wanted the agents to compromise with the policy holders on a basis of 75 to 80 per cent.

PHILADELPHIA NOTES.

S. S. Pennock has moved his ribbon and supply department from the second floor of his building to the main floor of the new annex thus providing concentration and economy, for his rapidly growing interest.

George C. Watson has moved his offices to the Dobson Building, 9th and Market. He is now sole agent in the United States and Canada for the well-known growers of fancy grasses; Barenbrug, Burgers & Co., of Arnhem, Holland; also Philadelphia representative of J. C. Vaughan, Chicago and New York, Western Springs Nurseries, and Horticulture Publishing Co., of Boston.

The sympathy of the trade is extended to Mr. Maull, late of the Peacock Company at Atco, on the death of his wife. Many of the leading members of the trade attended the funeral on the 4th inst.

Mr. McKubbin of Dreer's, with Mrs. McKubbin will start next week on a three week's vacation to Newfoundland. The way the prospect is painted by Mr. McKubbin makes us register a vow to take that trip if business will only let up long enough.

Among the latest new building projects we hear of are an addition of two houses by Fred Aicher, Clifton Heights, and one of three houses by Jacob Becker. Lord & Burnham Co., through their Philadelphia representative, D. T. Connor, have secured both contracts.

A. E. Wohlert, Bala, has sub-let the greenhouses to his brother Emil and will devote himself henceforth to the landscaping end of the business.

A voluntary bankruptcy petition has been filed in the United States District Court by Edward C. Holmes, florist and seedman, of Broadway, Somerville, Mass. His liabilities are \$31,245, and his assets \$9372. There is one secured and 400 unsecured creditors.

NEWS NOTES.

The Central Floral Co., Chicago, are to be located at 68 State street.

The Twin City Pottery Manufacturing Co. of Minneapolis, Minn., has taken the business of the Swahn Pottery Co.

Thomas Hall of Minneapolis will start a business of his own, having left his position with the Lakewood Cemetery Association.

Involuntary bankruptcy proceedings were filed in the United States court against the Hugh L. Aumann Co., Inc., of Norfolk, Va. The Philadelphia Cut Flower Company and the Leo Niessen Company are among the creditors.

A five-acre field has been planted to sunflowers by Rood Bros., Lake Park, Ia. A corn planter was used and the cultivation will be the same as corn. Rood Bros. are reported to have contracted to sell their entire output to a seed house at from \$1.75 to \$2 per 100 pounds. A yield of 1500 pounds per acre is expected, which at \$1.75 per hundred weight will bring \$26.25 an acre.

The report of Dr. Clinton, botanist of the agricultural station at New Haven, Conn., has just been issued. It contains notes of new fungous diseases which have appeared within the year in this State, and two papers containing critical studies of the mildew of lima beans and the potato blight. Copies can be secured by applying to the Connecticut Agriculture Station, New Haven, Conn.

Among the charges made before the Drake investigating committee at Cincinnati was the alleged sale of flowers from the city parks by the former park superintendent. Quite a number of the local florists have been notified to appear before the grand jury, and while no information as to what they will be asked to testify is given out the inference is that this disposition of the flowers is the matter under investigation.

The Southern Floral Nursery Co., now located at Fruitdale, Ala., has been incorporated as a stock company with capital of \$30,000. The headquarters of the company will be removed about Aug. 1 to Bucatanna, Miss., the nurseries at Fruitdale and Fairhope will be extended, and it is planned to establish branch nurseries throughout Alabama and Mississippi in such communities as will subscribe for at least \$5000 worth of stock.

We are in receipt of a pleasant letter from Green's Nursery Company of Rochester, informing us that the fire of the past spring, while it inconvenienced them considerably, coming in such time as it did, was not so disastrous as first anticipated, as the records being complete gave them an opportunity of corresponding with those patrons whose orders were destroyed in the fire, thus saving the annoyance and inconvenience that would have occurred had the records of these orders been destroyed. They have now completed the remodeling of the building and are again located therein.

FIELD NOTES ON PEONIES.

The following notes were taken Tuesday, May 29, at Dreers' nurseries, Riverton, N. J. While peonies were several days earlier around Philadelphia than usual this season, Riverton seems to be later. Whether it be the light soil or some climatic condition Mr. Eisele was unable to say. The writer examined all that were in bloom as to size and quality of bloom, vigor of growth, length of stem, and freedom—the four qualities that appeal most to the commercial florist. In considering the first requisition many very beautiful varieties were passed by on account of their unadaptability for shipping purposes. In all, some three hundred varieties were examined, but only the best and most striking are commented on in these notes.

Asa Gray; blush pink of finely imbricated form, guard petals salmon flesh, center deeper and flaked with lilac and carmine; introduced by Crousse in 1886.

Achillea; this variety was not in bloom; Rosenfield's Marie Lemoine is said to be identical.

Beaute Francaise; blush pink with carmine spots; well adapted for shipping purposes.

Belle Douaissienne; rose pink collar, soft rose shading to white center; fragrant.

Belle Chatelaine; pink with white center.

Caroline Allain; pink collar, center flesh changing to white; rose scented.

Festiva (the original variety introduced by Donkclair in 1838—not Festiva Maxima introduced by Buyck in 1851); not as large as F. Maxima; a good shipper, known as the "Drop White" around Chicago; ivory white, with dot in center. Many growers have this variety under the name of Festiva Maxima.

Andre Lauris; deep bright rosy red, very double.

Abel de Pujol; deep rose shading to pink, high full center.

Amandine Mechin; most of the good double crimsons are late, this one is among the earliest; high full center, no collar.

Ambroise Verschaffelt; deep crimson, large; a useful cut flower, but has a touch too much of magenta.

Delachii; deep crimson shading to purple; one of the best of the dark class.

Dela cour Verhille; white with blush collar, broad petals, very fragrant.

Duke of Wellington; white with high center and large collar, long, strong stems and very fragrant. Many inferior sorts are masquerading under this name. Care should be taken to get only the true variety.

Duchess de Nemours; showing up well but the buds had not opened. (We saw it in fine condition at Horticultural Hall two days later. It is a grand white).

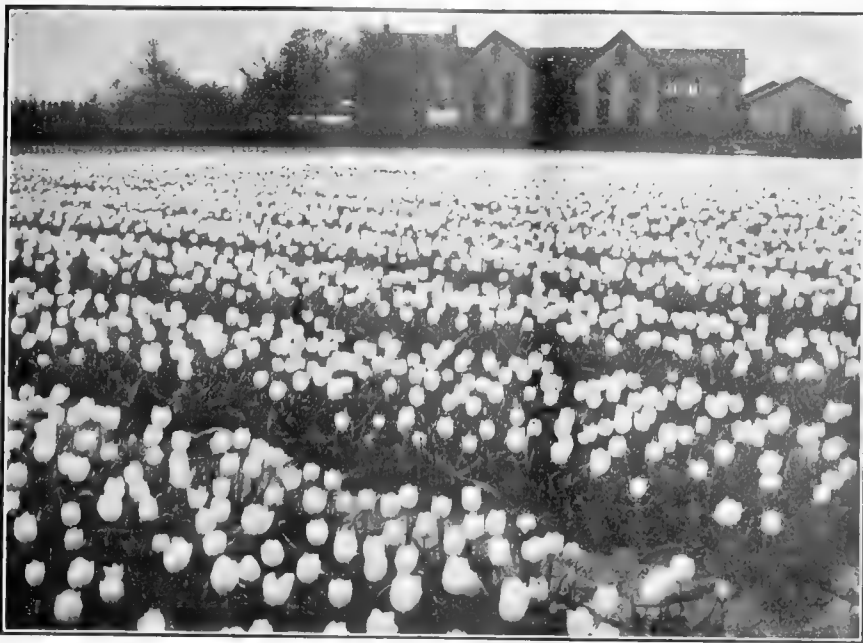
Duchess de Orleans; Kelway describes this as a pale rosy lake with salmon center; Ward says it is a deep pink with violaceous tints on center petals interspersed with salmon; that sounds a whole lot different to read, but its a good pink all the same.

De Boisduval; rose, very fragrant.

Eugene Verdier; flesh with white center, vigorous grower, long stems and free.

Festiva Maxima; good as ever, fully

FIELD OF WHITE POTTEBAKER TULIPS IN HOLLAND.



a week earlier than Duchess de Nemours, and ranks first as an early white to date. Introduced some 55 years ago, some say by Buyck, others by Meillez.

Francois Ortegal; deep crimson very richly colored, fragrant.

Felix Crousse; bright carmine.

Grandiflora alba; not very good as to color but a fine flower.

Golden Harvest; straw color with blush collar a very sweet and showy peony, probably the nearest approach to a yellow.

Globosa; light bright pink with chamois center; well named.

Humei Carnea; we would not mention this one except that it is largely grown for cut flowers in some sections, notably around Chicago. It is too ragged for commercial purposes when we have so many other good pinks that are preferable.

Lady Leonora Bramwell; soft rose, high center, fragrant. There are few in its color that are more satisfactory than this well-known variety.

L'Esperance; vivid rose colored flower, high center, very compact, early, free and highly perfumed.

La Brune; deep crimson with golden central petals. Although of the Japanese type with large collar this looks like a good commercial sort if cut early. Its charming form and color would make it sell on sight if offered to the retailer in good shape.

La Tulipe; cup-shaped, white with carmine stripes, long stems, standing upright, well above the foliage. There is nothing quite so distinct and characteristic as this variety. One can name it instantly among a thousand.

La Coquette; rose, bloom not extra large but a good cut flower variety.

Marie Houillon; light satin rose, pink collar and high full lighter center. Rose-scented.

Madame Warroneiz; rose guard with carmine center.

Madame Courant; blush white with pink collar; long stems.

Madame Furtado; rosy carmine,

center petals tinted salmon rose, highly fragrant.

Madame Forel; rosy lake, beautiful rounded flower, borne on long, strong stems.

Madame de Vetry; creamy white with pink guard petals, fragrant.

M. Paillet; delicate pink.

Modeste Guerin; cherry rose.

Mme. Barillet Deschamps; rose shading to white; as a commercial sort this one is worth watching.

Mlle. Rousseau; white delicately shaded cream.

Madame de Verneville; white with carmine dots, very compact flower.

Rosa superba; (not the officialis variety), bright rose.

Zoe Calot; delicate rose with lighter center, very durable.

Virgo Maria; at first sight one would call this Festiva maxima but the dots are not so near the center and the petals are more scalloped.

Mme. Calot; delicate flesh shading to white, collar rose-tinted.

GEORGE C. WATSON.

Geranium Queen of Pinks is a new bedding variety sent out by an English firm this season which is highly spoken of as to its habit, color, and floriferous qualities. We may see it next season.

Ho! All Ye Peony Lovers!

See my new creations in peonies at my gardens, South Weymouth, Mass., up to Wednesday, June 13, or at the peony show, Boston, June 15, 16.

GEORGE HOLLIS, Peony Specialist.

We shall have to hand in one week's time a large importation of Cattleya Schroederiae and Mendelli.

CARILLO & BALDWIN,
Orchid Growers and Importers,
SECAUCUS, N. J.

TOLEDO PREPARES FOR THE CONVENTION.

The latter part of this month will see the seedsmen assembled here in convention and Toledo will try her very best to make this convention one which the visitors will not so easily forget. Toledo has been gaining in favor as a convention city very much of late years; she offers a good many attractions and the beautiful and picturesque Maumee river as well as Lake Erie help much to make her a popular spot.

A committee has formed itself among the local seedsmen for the entertainment of the visitors, and they will put forth every effort to make it pleasant for all. This committee is composed of Messrs. Henry Philipps, Wm. T. Philipps, Chas. Burge and Rad. Burge of the F. W. Flower Co., and W. H. Marshouse, and they have great plans. A moonlight trip for several hours will follow the first day's busy session and all members are expected to take part in it with their ladies. This excursion will be on Lake Erie in one of the big lake steamers and will just last long enough so as not to tire the people out. The entertainment planned for the second day will take the visitors in comfortable trolley cars ten miles up the river on one side and back again on the other that they may see what beautiful surroundings Toledo has. This Maumee river is very wide in some places and numerous islands enhance its beauty. The third day's entertainment will be a banquet worth attending, even by those who are used to such affairs; the committee has set its heart on making this a success from all points and thus to wind up the convention in a fitting way.

As first-class hotels may be recommended the Boody House, St. Charles, St. Clair, Jefferson, Wayne and De-veaux, and should anyone wish further information he may address any of the gentlemen of the committee.

A PHILADELPHIA SEEDSMAN.

There was a planked shad dinner given at a boat club near Philadelphia recently. Each guest had his picture



done in water colors on the menu. As the artist had never seen any of the said guests he had to draw on his imagination. One of the guests was a Philadelphia seedsmen. The accompanying picture is not very flattering, but the fact that the seeds are sprung 6 feet high and in bloom by the time the hind leg of the sower gets out of the way makes amends, and illustrates forcibly that Burpee's are not the only seeds that grow and grow quick. We refrain from giving the seedsmen's name, but can assure our readers that this is not one of the "wonderfulness of

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4-5 inch	100	1000
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millionaire seedsmen" we heard of on a recent strenuous occasion in Washington.

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TELL US YOUR WANTS, WE WILL DO THE REST

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BUSINESS CHANGES.

Bonnet & Blake, located heretofore at 26 Boerum place, Brooklyn, will be found hereafter at 106 Livingston street.

Nicholas & Reichard, rose growers of Madison, N. J., have dissolved partnership. Mr. Reichard has taken the Connelly greenhouses.

The Finleyville Floral Co. is the name of a new concern that will carry on business in Union Township, near Finleyville, Pa. Capital stock, \$3000. A. T. Linn, E. Garland and C. Fritchman, stockholders.

J. A. Toner, of the firm of Toner & Sanborn, S. Burlington, Vt., has purchased his partner's interest, given up the store on Williams street, and will do business at the greenhouses on Main street under the name of J. A. Toner & Sons.

The Chase Nursery Co., recently incorporated, will locate at Mercury, Ala., and establish a fruit nursery. The Alabama Nursery Co., in which the incorporators of the new company have been interested, will continue under the management of Herbert Chase at Huntsville, Ala.

PERSONAL.

Miss Ada G. Meehan, daughter of William E. Meehan, of Germantown, Pa., and Warren J. Chandler, were married on Saturday in Grace Episcopal Church, in Gowen avenue, Mount Airy. The ceremony was performed by the Rev. Simon C. Hill, rector of the church. The bride who was given away by her father, carried white roses and lilies of the valley. The matron of honor carried pink peonies, and the bridesmaids pink sweet peas. The flower girls carried baskets of flowers.

We applaud Miss Meehan's wise selection of a life partner. Mr. Chand-

ler is a nice boy and correspondent of HORTICULTURE.

Mr. and Mrs. Chandler will reside at 30 East Pleasant street, Germantown.

NEWS NOTES.

The Aurora Nursery Co., Aurora, Ill., have opened an office at the corner of Fox street and Broadway.

The Southern Floral Nursery Co. of Fruitdale, Ala., whose sale of the famous canna Queen of Beauty to the Frank Cummings Bulb & Plant Co., has been so widely advertised, now announces that their interest this year will centre in Fairhope, a canna which promises to be a money maker.

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 Manufacturers of FLORISTS' LETTERS



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ROSES								
Am. Beauty and Edgely Fan. & Sp.	15.00	to 25.00	15.00	to 20.00	20.00	to 25.00	8.00	to 20.00
Extra.....	8.00	to 12.00	10.00	to 12.00	15.00	to 18.00	6.00	to 8.00
No. 1.....	4.00	to 6.00	6.00	to 8.00	12.00	to 15.00	4.00	to 6.00
Lower grades.....	2.00	to 4.00	3.00	to 4.00	5.00	to 8.00	5.00	to 2.00
Bride & Maid—Fan. & Sp.....	5.00	to 6.00	3.00	to 4.00	6.00	to 8.00	5.00	to 6.00
Extra.....	3.00	to 4.00	2.00	to 3.00	4.00	to 5.00	3.00	to 4.00
No. 1 and Lower gr.....	1.00	to 2.00	1.00	to 2.00	2.00	to 3.00	3.35	to 1.00
Liberty, Fancy.....	8.00	to 10.00	.....	to 8.00	8.00	to 12.00	6.00	to 8.00
Ordinary.....	2.00	to 4.00	.....	to 3.00	3.00	to 5.00	5.00	to 3.00
Richmond, Fancy.....	8.00	to 10.00	10.00	to 12.50	8.00	to 12.00	6.00	to 10.00
Ordinary.....	2.00	to 4.00	3.00	to 4.00	3.00	to 5.00	5.00	to 3.00
Golden Gate, Fancy.....	3.00	to 6.00	3.00	to 4.00	0.00	to 5.00	3.00	to 5.00
Ordinary.....	2.00	to 3.00	1.00	to 3.00	3.00	to 5.00	5.00	to 1.00
Chatenay, Fancy.....	4.00	to 6.00	3.00	to 4.00	6.00	to 8.00	3.00	to 5.00
Ordinary.....	2.00	to 3.00	1.00	to 3.00	3.00	to 5.00	5.00	to 1.00
CARNATIONS								
Fancy.....	1.50	to 4.00	1.50	to 2.00	2.00	to 3.00	1.00	to 1.50
Ordinary.....	.75	to 1.00	.75	to 1.00	1.00	to 1.50	.50	to .75
MISCELLANEOUS								
Cattleyas.....	40.00	to 50.00	.....	to 50.00	50.00	to 60.00	40.00	to 60.00
Lilies.....	6.00	to 12.00	6.00	to 10.00	10.00	to 15.00	5.00	to 8.00
Callas.....	6.00	to 12.00	6.00	to 10.00	10.00	to 15.00	5.00	to 8.00
Lily of the Valley.....	2.00	to 4.00	3.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Paeonies.....	2.00	to 6.00	.....	to 2.00	.....	to 4.00	4.00	to 6.00
Sweet Peas.....	.50	to 1.00	.25	to .50	.25	to .50	.15	to .30
Mignonette.....	.....	to 1.00	1.00	to 2.00	2.00	to 3.00	.....	to 1.00
Adiantum Cuneatum.....	.50	to 1.00	.....	to 1.00	1.00	to 1.50	.75	to 1.00
Croweanum.....	.....	to 1.00	.....	to 1.00	1.00	to 1.50	.....	to 1.50
Smilax.....	10.00	to 15.00	12.00	to 15.00	15.00	to 20.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	25.00	to 50.00	35.00	to 50.00	.....	to 50.00
" & Sprenger bunches	35.00	to 50.00	25.00	to 50.00	35.00	to 50.00	20.00	to 35.00
Lilacs per 100 bunches ..	25.00	to 50.00	to 50.00	to 50.00	to 50.00
Snap dragon.....	to 50.00	to 50.00	to 50.00	to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON No sooner had the effects of the Decoration Day onslaught passed away than this market was back again into a condition of congestion even worse than the period that had preceded that holiday. It is doubtful if ever before in this vicinity such an unwieldy surplus was thrust upon the dealers. The quoted prices in this issue really have little application when the situation in the aggregate is considered, for vast quantities of roses and carnations, including those of the finest grades, have been unloaded at from five to seven dollars a thousand and, even at that, the buyers are looked upon as philanthropists. Lily of the valley which ought to sell well at this date is also badly overstocked. Peonies are beginning to come in abundantly and will soon add their bulk to the heavy overstock being carried from day to day. The wholesalers are puzzled to know what to do with the stuff that is being thrust upon them.

Up to Monday, May 27, **BUFFALO** the market was overstocked on everything, as previously reported, but from that time on everything in the line of cut stuff that had been carried over for days began to move at a good pace. The shipping trade was excellent and the weather ideal for carrying the stock to destination. Roses were in good supply and demand generally fair; no advance in prices. Carnations were a little short on supply; roses were a good substitute in many cases. Outdoor lily of the valley was overflowing, though a good amount was disposed of. Outdoor stock moved well; Harrisii were also good sellers. No special demand on Beauties, although enough were on the market if wanted. Peonies were on the list and the best quality sold well; home grown stock held back by cold weather. Cape Jessamine plentiful but no extra demand. For plant decorations the most in demand were geraniums, pink being favorite color and Poitevine the variety in greatest demand. There has been a heavy demand on all bedding stock this spring. Since Decoration Day and up to Monday business has been brisk and the market healthy, but at time of mail-

ing report, June 5, carnations and other stock are abundant.

CINCINNATI Reports indicate that business is somewhat better than usual for this time of the year. The demand for Memorial Day was a pleasant surprise to most of us. Everything in the line of cut flowers was disposed of, which is saying a great deal, as outdoor stock, especially peonies, was plentiful. Peonies met with great favor with the public this year and this showy flower will be grown more extensively another season. Some good Beauties are being shipped into this market now, but all tea roses are quite small. Prices are now down to the summer basis, but stock in most cases is bringing about all that it is worth. Lily of the valley is coming in fine and is selling well. The same is true regarding lilies, but the latter are being sold at a figure which leaves but little profit for the grower.

Getting ready for and **COLUMBUS** taking care of the Decoration Day trade was, of course, the great feature of last week. As has been the case in this city with other holidays—the business done last Wednesday was far in excess of what had been planned for, and largely ahead of the business a year ago. One special feature was the large number of orders that were placed, and the sales that were made the day before; in fact, so enormous was this advance sale, so to speak, that very little stock was left for the sales of the day itself—some of the florists were practically cleaned out the night before. Peonies were a great feature and, in fine form, we had had them for several days, but they came in so near the holiday, that growers held them back all they could knowing a better price could be obtained Decoration Day. This gave us immense quantities of them, but there was not enough to supply all, so great was the demand. Carnations were in splendid demand—the supply was grand also—but even at the advanced rate, the sales continued steady and strong. Other flowers went well and at good prices, but peonies and carnations were the leaders. There was very little hardy outdoor stock in the market, and many of the craft think

that it was this cause which threw such an immense business into florists' flowers. Whatever the reason, an elegant business was done, as the empty ice chests most eloquently testified. It is always a hard thing to say how trade compares on any holiday with previous years, but it seems to be agreed that we had the best Decoration Day in the history of this city.

All the florists, **INDIANAPOLIS** both wholesale and retail report a most excellent Decoration Day business, especially the cemetery florists and those that control an out of town trade. It was a harvest for the peony growers, as the crop was just at its height. Abundance of stock was to be had in all lines and by noon Wednesday everybody was practically sold out. The majority report the best season they have ever had.

Business the past week was fairly active for the season. Following Decoration Day bulky subjects, such as peonies and low-priced items like carnations were most in demand, but later in the week better qualities were called for. Good American Beauties enhanced considerably in value and were scarce. Kaiserin has the call in the white class and Killarney among the pinks. Lily of the valley and cattleyas in good shape and in excellent and steady demand. Centaurea imperialis, which is used mostly in decorations, has fine long stems and comes in pink, white, yellow and lavender. Peonies are still a strong feature in the market. For Decoration Day considerably more were used than last year. The wholesale houses were working until 10 p. m. on Sunday sending out wagon loads to northern and western points less climatically favored. The supply was ample except in white. Here is a point not yet sufficiently impressed on the peony growers. Plant plenty of whites—all the good ones early, mid-season and late. Officialis alba, Festiva Maxima, Duchess de Nemours and Duke of Wellington are among the good sorts of white giving a succession. Dealers state that the peony has made a trade for itself and does not hurt the regular sale of other flowers. Among the new items seen around are moss roses and Scotch pinks.

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	Last Half of Week ending June 2 1906	First Half of Week beginning June 4 1906		Last Half of Week ending June 2 1906	First Half of Week beginning June 4 1906
Roses			Carnations, Fancy	1.50 to 2.00	1.50 to 2.00
Am. Beauty and Edgeley fan and sp.	10.00 to 20.00	10.00 to 15.00	Carnations, Ordinary	.50 to 1.50	.50 to 1.50
" extra	0.00 to 10.00	6.00 to 8.00	Cattleyas	35.00 to 50.00	35.00 to 50.00
" No. 1	4.00 to 5.00	3.00 to 4.00	Lilies	4.00 to 6.00	4.00 to 6.00
" Lower grades	1.50 to 2.00	1.00 to 2.00	Callas	4.00 to 6.00	4.00 to 6.00
Bride & 'Maid, fan and sp.	4.00 to 6.00	4.00 to 6.00	Lily of the Valley	1.00 to 4.00	1.00 to 4.00
" extra	2.00 to 4.00	2.00 to 3.00	Pæonies	3.00 to 6.00	3.00 to 6.00
" No. 1 and lower grades	.75 to 2.00	1.00 to 2.00	Sweet Peas, bunches	2.00 to 4.00	2.00 to 5.00
Liberty, fancy	6.00 to 12.00	10.00 to 15.00	Nigronette	.50 to 1.00	.50 to 1.00
" ordinary	.50 to 4.00	2.00 to 8.00	Adiantum Cuneatum	.50 to .75	.50 to .75
Richmond, fancy	10.00 to 12.00	10.00 to 15.00	" Croweanum	.50 to 1.50	.50 to 1.50
" ordinary	.50 to 8.00	2.00 to 8.00	Smilax	10.00 to 15.00	10.00 to 15.00
Golden Gate, fancy	3.00 to 5.00	4.00 to 6.00	Asparagus Plumosus	20.00 to 30.00	20.00 to 30.00
" ordinary	.50 to 2.00	1.00 to 3.00	" & Sprenger, bunches	10.00 to 20.00	10.00 to 20.00
Châtenay, fancy	3.00 to 5.00	4.00 to 6.00	Snapdragon to to
" ordinary	.50 to 2.00	1.00 to 3.00			

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BEST LINE IN THE COUNTRY

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the autumn. Buy of the enterprising florist
supply house

J. STERN & CO.

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WE WANT ADVERTISING
LET US GET TOGETHER

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FADELESS
SHEET MOSS**

**\$2.50
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Send for Circular and sample

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a lasting evergreen, takes the place of
wild smilax for June decorations. IT'S
well worth trying.

DO IT NOW?

E. A. BEAVEN, Evergreen, Ala.

Best Flowers

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ROSES, CARNATIONS

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist, also Dealer in
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BUFFALO, N. Y.

Give us a trial.

We can please you.

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\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

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Fresh Northern, \$2.00 per 1000.

LYRATA, the best substitute for Smilax, \$7.00 per case.

Headquarters for all FLORISTS' SUPPLIES. Wire Designs,
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Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL PESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main, 2618.

WHOLESALE FLOWER MARKETS. PER 100. TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	June 4		June 5		June 5		June 4	
ROSES								
Am. Beauty and Edgely, fan and sp.	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00
" extra.....	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	12.00	to 15.00
" No. 1.....	10.00	to 12.50	10.00	to 15.00	10.00	to 15.00	8.00	to 10.00
" Lower grades.....	5.00	to 8.00	6.00	to 8.00	5.00	to 10.00	2.00	to 4.00
Bride and Maid, fan. and sp.....	8.00	to 8.00	6.00	to 8.00	7.00	to 8.00	8.00	to 8.00
" extra.....	5.00	to 6.00	5.00	to 6.00	6.00	to 7.00	7.00	to 8.00
" No. 1 and Lower grades.....	2.00	to 4.00	1.00	to 4.00	3.00	to 5.00	2.00	to 4.00
Liberty, fancy.....	8.00	to 8.00	6.00	to 8.00	6.00	to 10.00	8.00	to 10.00
" Ordinary.....	3.00	to 5.00	4.00	to 6.00	3.00	to 6.00	4.00	to 6.00
Richmond, Fancy.....	8.00	to 8.00	6.00	to 8.00	6.00	to 10.00	8.00	to 12.00
" Ordinary.....	4.00	to 6.00	4.00	to 6.00	3.00	to 6.00	4.00	to 6.00
Golden Gate, Fancy.....	6.00	to 6.00	6.00	to 6.00	5.00	to 6.00	6.00	to 8.00
" Ordinary.....	2.00	to 4.00	3.00	to 4.00	3.00	to 5.00	3.00	to 4.00
Chatenay, Fancy.....	6.00	to 8.00	6.00	to 8.00	6.00	to 8.00	8.00	to 10.00
" Ordinary.....	4.00	to 6.00	4.00	to 6.00	6.00	to 8.00	4.00	to 5.00
CARNATIONS								
Fancy.....	3.00	to 3.00	3.00	to 3.00	3.00	to 3.00	3.00	to 4.00
Ordinary.....	1.00	to 2.00	2.00	to 2.00	1.50	to 2.00	1.00	to 2.00
MISCELLANEOUS								
Cattleyas.....	8.00	to 10.00	10.00	to 12.00	10.00	to 12.00	8.00	to 15.00
Lilies.....	10.00	to 12.50	10.00	to 12.50	8.00	to 10.00	8.00	to 10.00
Callas.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Paeonies.....	3.00	to 6.00	3.00	to 6.00	3.00	to 6.00	3.00	to 6.00
Sweet Peas.....	.35	to .50	.50	to .60	.30	to .60	.25	to 1.00
Mignonette.....	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	.75	to 1.00
Adiantum Cuneatum.....	1.00	to 1.00	1.00	to 1.00	1.00	to 2.00	1.00	to 1.00
" Croweanum.....	1.00	to 1.00	1.00	to 1.00	1.25	to 1.50	1.00	to 1.50
Smilax.....	15.00	to 15.00	12.50	to 15.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, strings.....	50.00	to 50.00	30.00	to 50.00	40.00	to 50.00	25.00	to 50.00
" " & Sprengerii, bunches.....	35.00	to 35.00	30.00	to 40.00	25.00	to 50.00	25.00	to 50.00
Gladiolus.....	10.00	to 10.00	10.00	to 10.00	10.00	to 10.00	10.00	to 12.00
Snapdragon.....	10.00	to 10.00	10.00	to 10.00	10.00	to 10.00	10.00	to 10.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

Consult the Buyers' Directory and
Ready Reference Guide on pages 746
to 748.

The KERVAN CO. 20 WEST 27th ST., N. Y.

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Fresh cut Palmetto & Cypas Palm Leaves, Galax, New
cottons, Ferns and Mosses. All Decorating Evergreens.

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Joseph Breck & Sons,
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ALTERNANTHERAS.

Alternantheras, red and yellow, 2-in., \$2.00 100; rooted cuttings, 50c. 100, \$4.00 1000. Brilliantissima, 2-in., \$2.50 100; rooted cuttings, 60c. 100, \$5.00 1000. Davis Bros., Morrison, Ill.

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A. M. Herr, Lancaster, Pa.
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Asparagus Sprengeri, 2 1/2-in., \$2.25 per 100. Otto Bourdy, Lowell, Mass.
Asparagus Plumosa, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

BAMBOO STAKES.

Yokohama Nurseries, 31 Barclay St., N. Y.
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Begonia Gloire De Lorraine.
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Bog plants, including Dionaea muscipula, Sarracenia flava, purpurea, rubra, etc. Write for prices. James M. Lamb, Fayetteville, N. C.

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CANNAS.

Canna Alemana, dry or started roots, \$2.00 per 100. J. H. Krone, Jr., Fort Smith, Ark.
10,000 fine potted stock ready to plant. 20 best sorts. List free. Benjamin Connell, West Grove, Pa.

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My Maryland and Jessica.
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Chicago Carnation Co., Joliet, Ill.
Rooted Cuttings.
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Agave Americana (Century Plant) from 2 1/2 to 3 and 4 inch pots, cheap. Send for price lists. James M. Lamb, Fayetteville, N. C.

E. & C. Woodman, Danvers, Mass.
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CHRYSANTHEMUM PLANTS.

5000 best commercial sorts. List free. Benjamin Connell, West Grove, Pa.
Charles H. Totty, Madison N. J.

CLEMATIS.

Clematis paniculata, 2-yr., transp., \$6 per 100; 1-yr., strong, \$4 per 100. E. Y. Teas, Centerville, Ind.

COBAEAS.

Cobaea scandens, \$1.00 100. Express paid. Chas. Gay, Des Moines, Iowa.

COLEUS.

H. N. Eaton, So. Sudbury, Mass., Rooted Cuttings.
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Coreopsis lanceolata, 2 1/2 in. pots, \$2.50 per 100. E. Y. Teas, Centerville, Ind.

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Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

Welch Bros., 15 Province St., Boston.
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Converse Greenhouses, Webster, Mass.

EGG PLANT.

Fine Egg Plants, 3 inch pots, \$2.00 a 100. Cash. Roney Bros., West Grove, Pa.

FERNS.

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Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' FERTILIZER.

A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address J. W. Barwell, Blatchford's Calf Meal, Animal and Poultry Foods, Fertilizers, Karbo Dip, Seeds, etc., Waukegan, Ill. Established at Leicester, England, in 1800.

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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.

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Wm. S. Herzog, Morris Plains, N. J.
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A. M. Herr, Lancaster, Pa.
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For Geraniums New Life, Telegraph, Trego and leading kinds, true for stock, Write, Roney Bros., West Grove, Pa.

GERANIUMS, large stock of strong plants in bud and bloom. 3-in., \$5.00; 4-in., \$6.00 per 100; BIGONIAS, in bud and bloom, 3-in., \$6.00 per 100; AMERICAN BEAUTY, fine 2 year old bench plants, \$7.00 per 100; Dorothy Perkins, Baby and Crimson Ramblers, in 2 1/4 and 3 in.; DRACAENA INDIVISA, 3-in., \$1.20; 4-in., \$1.80; 5-in., \$2.50 per doz; VINCA VARIEGATA, 4-in., \$7.50 per 100; ASPARAGUS SPRENGERI, 2 1/4 in., ready to shift, \$1.00 per 100; FONGLOVE and other herbaceous stock. Large stock of fine CHRYSANTHEMUMS and CANNAS. Can make prompt shipment. Send for stock list. Cash with order, please. REEDS LAKE FLORAL COMPANY, Mich. Trust Bldg., Grand Rapids, Mich.

GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin, N. Y.

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Wm. Elliott & Sons, New York.

GLADIOLI, FORCING VARIETIES.

Joseph Breck & Sons Corp., 47-54 N. Market St., Boston.

GLASS.

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., Boston.
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GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square, New York.

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Hitchings & Co., 1170 Broadway, New York.

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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.

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Weathered Co., 46 and 48 Marion St., New York.

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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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Chas. H. Manley, Premier Mfg. Works, St. Johns, Mich.

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GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for Florists.

Mineralized Rubber Co., New York.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston, Mass.

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The Kervan Co.,

20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 and 40 Miami Ave., Detroit, Mich., Wm. Dilger, Mgr.

Fancy Ferns.
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Crowl Fern Co., Millington, Mass.
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E. A. Beaton, Evergreen, Ala.
Faddeless Sheet Moss, Lycopodium.
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HARDY PERENNIALS.

M. H. Walsh, Woods Hole, Mass.
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Wm. W. Edgar Co., Waverley, Mass.
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Lord & Burnham Co.,
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Pierson U-Bar Co., 1 Madison Square, New York.

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Hitchings & Co., 1170 Broadway, New York.

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John A. Scollay, 73 & 75 Myrtle Ave., Brooklyn, N. Y.

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Gurney Heater Mfg. Co., 188-200 Franklin St., Cor. Pearl, Boston, Mass.

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Kroeschell Bros., 35 Erie St., Chicago.
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HOT-BED SASH.

The A. T. Stearns Lumber Co., Neponset, Mass.

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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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HOTHOUSE GRAPE VINES.

Rose Hill Nurseries, New Rochelle, N. Y.
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IMPATIENS HOLSTII.

C. Winterich, Defiance, O.

IMPORTING HOUSES.

R. M. Ward & Co., New York.
Plants and Bulbs.

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Wm. Hagemann & Co., 55 Dey St., N. Y.
"Royal Clusters" Lilies.

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Nicotine Mfg. Co., St. Louis, Mo.
Nikoteen,

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Hammond's Paint & S. S. Works, Fishkill, N. Y.

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JAPANESE PLANTS.

Yokohama Nurseries, 31 Barclay St., N. Y.
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LANDSCAPE ARTIST.

William Plumb, 1133 Broadway, New York.
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LEADING RETAIL FLORISTS.

Alex. McConnell, New York.
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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.

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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway,

Kansas City, Mo.

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Gude Bros. Co., 1214 F St.,

Washington, D. C.

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Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla. Telegraph or mail orders promptly filled. Long distance telephone connections.

MASTICA.

H. G. Pierce Co., 150 Fulton St., New York.

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MOONVINES.

Godfrey Aschmann, 1012 Ontario St., Phila.
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MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.

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NURSERY STOCK.

Hart Pioneer Nursery, Fort Scott, Kansas.

J. H. Troy, New Rochelle, N. Y.

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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ORANGE TREES.

Julius Roehrs Co., Rutherford, N. J.
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ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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PALMS.

A. Leuthy & Co., Roslindale, Mass.
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PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
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PEONIES.

The Cottage Gardens Co., Queens, N. Y.
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PIPE FITTINGS.

Pipe, Valves and Fittings, Cuyler & Mohler, Baltimore, Md. Manufacturers' prices, F. O. B. your railroad station. Immediate shipment. Try us.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PUTTY.

Benj. Hammond, Fishkill on Hudson, N. Y.
Twemlow's Old English Glazing Putty.
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RHODODENDRONS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pye, Upper Nyack, N. Y.
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Rose Hill Nurseries, New Rochelle, N. Y.
Roses, Killarney.
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Benj. Dorrance, Dorrance, Pa.
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A. N. Pierson, Cromwell, Conn.
Grafted Roses.

S. J. Reuter, Westerly, R. I.

Roses, 2 1/2-in. pots. Karsines and 300 President Carnots, \$4.00 per 100, \$35.00 per 1000. Cash with order or good reference. Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

Roses. Baby Rambler, the strongest dormant stock in the country. \$2.00 per 100; 2 1/2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

2 1/2-in. pots, ready now. Baby Ramblers, Teas, H. P. Roses, 50 varieties, at \$30.00 1000; Crimson Ramblers, \$25.00 1000; Baltimore Belle, Dorothy Perkins, Pink, White and Yellow Ramblers, Queen of Prairie, Seven Sisters, etc., at \$20.00 1000. Gilbert Costich, Rochester, N. Y.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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SEEDS—Continued.

W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co.,
36 Cortlandt St., New York.
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H. F. Michell Co., 1018 Market St., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
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Wm. Elliott & Sons, 201 Fulton St., N. Y.

A. T. Boddington, 342 W. 14th St., N. Y.
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James Vick's Sons, Rochester, N. Y.
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Conrad Appel, Darmstadt, Germany. Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O.
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STEAM TRAP.

E. Hippard, Youngstown, O.
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SWEET POTATO PLANTS.

Jersey and red yam sweet potato plants ready to ship, 20c per 100; \$1.00 per 1000. Cash, please. S. J. McMichael, 142 Lar-
kins St., Findlay, O.
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VEGETABLE PLANTS.

J. C. Schmidt Co., Bristol, Pa.
Plainfield Nursery, Plainfield, Ind.
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VENTILATING APPARATUS.

Lord & Burnham Co.
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.

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Weathered Co., 46 and 48 Marion St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave., Chicago.

VINCAS.

E. & C. Woodman, Danvers, Mass.
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Vinea minor var., 2 1/2 in. pots, \$4 per 100. E. Y. Teas, Centerville, Ind.
Converse Greenhouses, Webster, Mass.
Vinea Variegata.

VIOLETS.

H. R. Carlton, Wilmoughby, O.
Violet, Gov. Herriek.
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William Sim, Cliftondale, Mass.
Princess of Wales.
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C. Lawritzen, Rhinebeck, N. Y.
Marie Louise.
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WEED KILLER.

Fairmount Chemical Co., Broad & Fair-
mount Aves., Philadelphia.
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WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

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N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.
George A. Sutherland Co., 34 Hawley St.,
Boston.
Welch Bros., 15 Province St., Boston.

WHOLESALE FLORISTS—Continued.**Buffalo.**

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Wm. F. Kasting, 383-87 Ellicott St., Buf-
falo, N. Y.

Chicago.

A. L. Randall Co., 21 Randolph St., Chicago.

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J. A. Budlong, 37 Randolph St., Chicago.
E. H. Hunt, 76-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Av., Chicago.
Peter Reinberg, 51 Wabash Av., Chicago.
Vaughan & Sperry, 60 Wabash Av., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

Detroit.

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Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Dilger, mgr.

New York.

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Wm. Stuart Allen Co., 53 W. 28th St.,
New York.

J. S. Fenrich, 110 W. 28th St., New York.
Ford Bros., 48 West 28th St., New York.
H. E. Froment, 57 W. 28th St., New York.
Alex. J. Guttman, 43 West 28th St.
E. C. Horan, 55 West 28th St., New York.
Philip F. Kessler, 55 W. 26th St., New
York.

Julius Lang, 53 West 30th St., New York.
A. H. Langjahr, 55 W. 28th St., New York.
James McManus, 42 W. 28th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55-57 W. 26th St., New
York.

A. Moltz, 55-57 W. 26th St., New York.
John J. Perkins & Son, 115 W. 30th St.,
New York.

John I. Raynor, 49 W. 28th St., New York.
W. F. Sheridan, 39 W. 28th St., New York.
Traendly & Schenck, 44 W. 28th St., N. Y.
Hicks & Crawbuck, Inc., 76 and 78 Court
St., Brooklyn, N. Y.

Philadelphia.

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W. E. McKissick, 1221 Filbert St., Phila-
delphia, Pa.
Leo Nissen Co., 1217 Arch St., Phila-
delphia, Pa.
S. S. Pennock, 1612-18 Ludlow St., Phila-
delphia, Pa.
Edward Reid, 1526 Ranstead St., Philadel-
phia, Pa.

Pittsburg.

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J. B. Murdoch & Co., 545 Liberty St., Pitts-
burg.
Pittsburg Florists' Exchange, 228 Diamond
St., Pittsburg, Pa.

New Offers in This Issue.**ANNOUNCEMENT.**

G. C. Watson.
Dobson Bldg., 9th and Market Sts., Phila.
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ASPARAGUS PLUMOSUS NANUS.

O. V. Zangen, Hoboken, N. J.
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BAY TREES AND DECORATIVE PLANTS.

A. Schultheis, College Point, N. Y.
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CANNAS.

C. Winterich, Defiance, O.
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GARDENIA VEITCHII.

C. H. Totty, Madison, N. J.
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PEONIES.

George Hollis, S. Weymouth, Mass.
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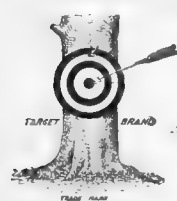
SEMPLE'S ASTER PLANTS.

J. C. Schmidt Co., Bristol, Pa.
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SURPLUS BULBS.

H. F. Michell Co., Philadelphia.
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TARGET BRAND WEED KILLER.
American Horticultural Distributing Co.,
Martinsburg, W. Va.
For page see List of Advertisers.



TARGET BRAND WEED KILLER



A most valuable formula for disposing of weeds. Positively effective.

RESULTS GUARANTEED

One application will last almost an entire season. Order a trial gallon, which makes 50 gallons treating liquid.

Price, \$1.00 per gallon can; \$4.00 per 5 gallon can; \$7.50 per 10 gallon can.

HORTICULTURAL INSECTICIDES, \$35.00 per 50 gallon barrel.

MADE ONLY BY...

AMERICAN HORTICULTURAL DISTRIBUTING CO., Dept. B, MARTINSBURG, W. VA.

WRITE for complete catalogue.

CUT FLOWER MARKET REPORTS. (Continued.)

LOUISVILLE Business conditions were generally satisfactory last week. Carnations and roses continue to come in sufficient quantity to meet all demands. Peonies and sweet peas are abundant and there is a steady call for them. Lilies and lily of the valley may be had in small quantities, with a light demand. In other stock the supply and demand are about equal.

OMAHA The plant and cut flower trade have been far better this season than in any previous year. Decoration Day trade was even more than the florists could handle. There was an abundance of flowers of all kinds early, but the big shipments necessary to meet the out of town demands soon caused a shortage of carnations and good roses.

SAN FRANCISCO The propitious commingling the past week of Memorial Day, school closing days and a surprising number of weddings had a happy trade effect—the first resumption since the holocaust of a market value for flowers. Memorial Day needs especially created the demand, and the few re-established florists found sufficient warmth in the traffic activity that coats were laid aside. This day has always rated well among the few big flower-selling days of the year. Some of the growers wisely remembered this, and the further fact that all the banks opened the Monday preceding the day for remembering the dead and depositors were privileged to draw on their accounts at will, and therefore thousands of people whose home flower gardens were burned would be in funds but have no flowers for their dead. The growers made no mistake in their reckoning and ceased from their custom since the earthquake of letting their posies dry out and brought in to the city florists a vast amount of stock to be paid for if sold. It was not enough, the flowers and greenery they brought. Everything was cleaned out, and, take it all in all, the Memorial Day floral business in San Francisco was almost equal to late like occasions before the disaster.

Among the recent contracts secured by the Pierson U Bar Company are ranges of U bar houses for C. E. Riley, Newton, Mass., and A. R. Harris, Irvington, N. Y.

STANDARD PLATE GLASS CO.

Manufacturers, Importers and Jobbers

AMERICAN AND FRENCH GREENHOUSE GLASS

26-30 Sudbury Street
61-63 Portland Street

BOSTON, MASS.

GREENHOUSES BUILDING AND PROJECTED.

Chicago, Ill.—D. Wood Brant, six houses, 40x185.

S. Burlington, Vt.—J. A. Toner & Sons, range of houses.

Altoona, Pa.—Karl Kuny, one house, 24x100.

Bristol, Tenn.—Bristol Floral Co., three houses, 20x50.

Minneapolis, Minn.—Otto Will & Son, range of houses.

College Point, N. Y.—Anton Schultheis, addition 100 ft.

Govanstown, Md.—I. H. Moss, range of houses, each 26x180.

Danbury, Conn.—Joseph E. Cornell & Co., one house, 20x50.

New Castle, Ind.—Peter Weiland, four houses, each 28x300.

Meramec Highlands, Mo.—Philip Giebel, two houses, 25x75.

A USEFUL ARTICLE.

Ocean City, N. J., June 2, 1906.
HORTICULTURE, Boston, Mass.

Gentlemen:—I have just finished an examination of HORTICULTURE of above date, a pleasure afforded me occasionally through the courtesy of a subscriber. Next to the regular contributions, editorial comments, etc., which are always good, I was interested in numerous and helpful advertisements, prominent among which is the one on last page for a weed-killer. I can give testimony both as to the efficiency and economy in using this particular preparation. We have at our summer residence here, a long asphalt pavement, which for years has given us trouble because of the weeds and grass that grew there, and which we had given up as a hopeless case until we applied this particular brand of Weed-Killer. The result was instantaneous, and now after a year since its application no vegetation of any kind can be seen. I lay particular stress on the economy of the preparation, because of the time and money spent in trying to exterminate them with a hoe, plantain pullers, etc.

Very respectfully,

(signed) MARY KELLY.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insure better service. Personal attention guaranteed. Twenty-five years' active practice. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

WANTED QUICK TO GET OUT OF BUSINESS.

Getting old and health poor. 10 acres of land, 10 Greenhouses, about 40,000 square feet of glass. Horses, Wagons, Tools, all in working order.

Wholesale and Retail Trade of
40 Years' Standing.

10 minutes' drive to depot and 1 post-office. Would sell the whole or half interest, or put it into a stock company. To anyone making business this is a good chance. Come to the place and see for yourself.

T. L. Lowden & Sons, Pittsfield, Mass.

FOR RENT

TEN GREENHOUSES in running condition; possession immediately; \$50. Dwelling house attached, \$12; or will run on shares.

Apply **TRAENDLY & SCHENCK,**
44 W. 28th Street, N. Y.

WANTED—A busy, experienced foreman, unmarried, for rose and carnation establishment; 25,000 feet of glass. Near Boston. In writing give full particulars. Address D. D., care Horticulture, Boston.
SALESMAN WANTED. To introduce a new system of irrigating and sprinkling outfits for greenhouses and outdoor use; a proven success. Bennett Bldg., Lowell, Mass.



MASTICA

(PATENTED)

For Glazing Greenhouses

Manufactured only by

F. O. PIERCE COMPANY
170 Fulton Street, New York

Agencies in all the Principal Cities
of the United States and Canada.

WRITE FOR CIRCULAR

STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/4 " " "	5.25	60 8 " " "	3.00
1500 2 1/2 " " "	6.00	HAND MADE	
1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
800 3 1/4 " " "	5.80	48 10 " " "	4.80
500 4 " " "	4.50	24 11 " " "	3.80
320 5 " " "	4.50	24 12 " " "	4.80
144 6 " " "	1.16	12 14 " " "	4.80
		6 16 " " "	4.50

Seed pans, same price as pots. Send for price list of
Cylinders for Cut flowers, Hanging Baskets, Lawn
Vases, etc. Ten percent. off for cash with order. Address
Hilfinger Bros., Pottery, Fort Edward, N.Y.
August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower.. POTS

If your greenhouses are within 500 miles of
the Capital, write us, we can save you money

W. H. ERNEST,
28th and M Streets, WASHINGTON, D. C.

**Holds Glass
Firmly**

See the Point
PEERLESS

Glazing Points are the best.
No rights or lefts. Box of
1,000 points 75 cts. postpaid.

HENRY A. DREER,
714 Chestnut St., Phila., Pa.

FULL SIZE
No. 2

BY SLIPPING A

PEERLESS GLASS REPAIR CLAMP

Over a cracked glass you protect your stock,
save coal and glass. Do it now before the high
winds play havoc with your roofs. \$1.00 will
repair 150 lights. Ask your supply man, or
A. KLOKNER, Wauwatosa, Wis.

Endorsed by about 400 prominent florists.



SAVE THE BLOOMS!
NIKOTEEN
DOES NOT INJURE SENSITIVE
PLANTS USED FOR FUMIGATION
OR SPRAYING, INDOORS OR OUT.
200 POUNDS TOBACCO IN ONE PINT NIKOTEEN.

Nicotine Mfg. Co., St. Louis, Mo.

THE HEART OF THE MATTER IS
ALL HEART SUN DRIED CYPRESS

GREENHOUSE MATERIAL

IS THE VERY BEST—

FOLEY MFG. CO. 471 W. 22ND ST. CHICAGO,

HAVE IT, RIGHT FROM THE GULF OF MEXICO,
AND WILL MAKE YOU RIGHT PRICES—

SEND FOR SKETCHES ESTIMATES AND
CATALOGUE FREE—

**HOT-BED SASH. VENTILATING APPARATUS,
FITTINGS AND MANY OTHER THINGS —**

If you are having delay in getting your roof material, send your orders
TO US and don't be in trouble. We will handle any
order in the time agreed. Try us.

FOLEY MANUFACTURING CO.

471 W. 22d Street - - - CHICAGO



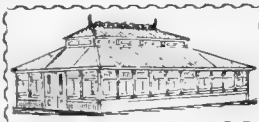
The Standard Steam Trap

Certificate of merit awarded at Washington, D. C.,
Florists' Convention. For simplicity, durability and per-
fect satisfaction it has them all guessing. It is
in a class by itself. To see it work a large
plant as well as a small will convince the
most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still
leads as the most durable, easiest working and the
all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over
12,000 feet sold thus far this season. Catalogues free.

E. HIPPARD, Youngstown, Ohio



GREENHOUSE REASONS.



Reasons are plentiful why **Premiers** are the best built. They are portable as well as durable—artistic as well as modern. You can see its superior outside points by its appearance; — the inside points of supremacy are proved by long wear — honest wear. They're all the same, from smallest to largest. — none of them ashamed to show their ins as well as their outs. We have had experience in greenhouse construction — that's the reason. Send for illustrated booklet No. 45.



CHAS. H. MANLEY,

Premier Mfg. Works,
ST. JOHNS, MICH.



HORICUM

KILLS SAN JOSE SCALE

Made by **HAMMOND'S SLUG SHOT WORKS,** Fishkill-on-Hudson, N. Y.
SOLD BY SEED DEALERS OF AMERICA.

Glenside, Pa., March 31, 1906.

HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.

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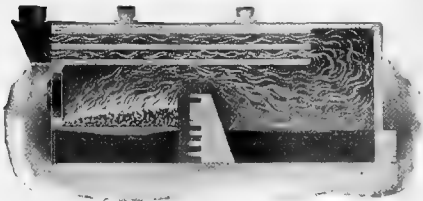
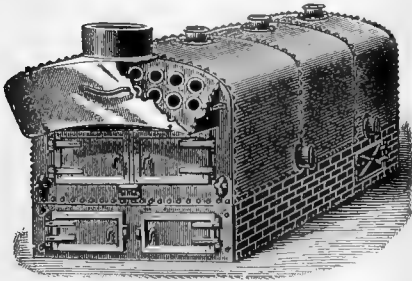
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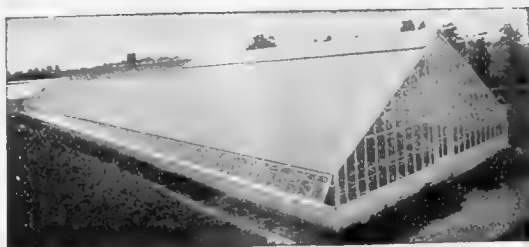
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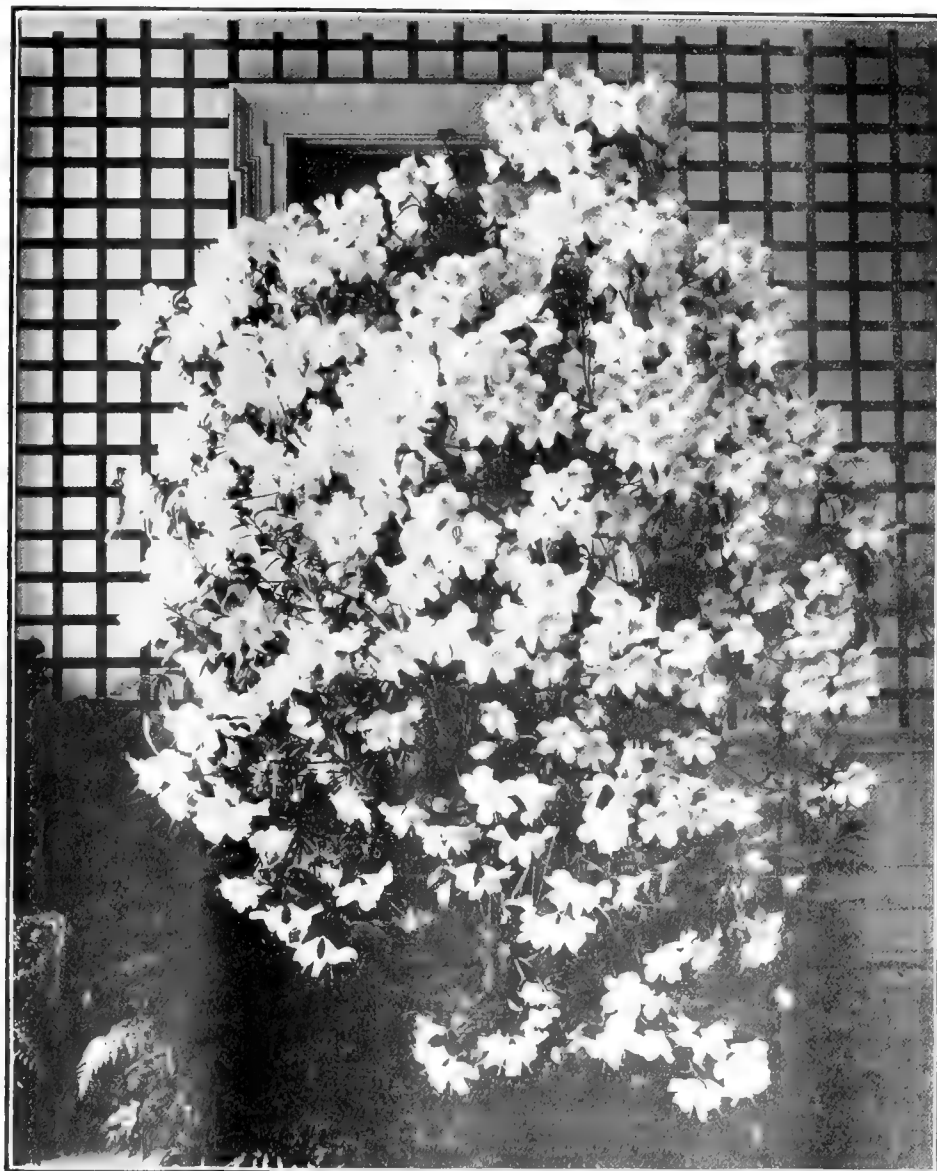


HORTICULTURE

Vol. III.

JUNE 16, 1906

No. 24



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VOL III

JUNE 16, 1906

NO. 24

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Filmy Ferns



HYMENOPHYLLUM DEMISSUM

TODEA PELLUCIDA
(Hymenophylloides.)

TRICHOMANES RADICANS

We spoke in a few articles about the most desirable ferns for general use; the list is far from being complete, but there are many, such as *gymnogramma*, *gleichenia*, *cheilanthes*, *pellaea* and others which are more properly collection plants. We close our little review with a few words on filmy ferns.

Filmy ferns are certainly the most delicate and the most interesting things to grow in dwelling rooms where they grow luxuriantly and require very little care. They have naturally to be grown under glass bells or glass cases and in a place where the sun can not strike them; they can be grown in pots or planted in a little rockery. Being slow growers and keeping their old fronds for years, when once planted and not disturbed, they will last and prosper for a long time. The box or pan or jardiniere which is to be covered with the bell glass or glass case has to be lined with zinc and filled with broken stones; if grown in pots these pots are put on top and the space between filled out with clean moss. If a little rockery has to be built, the stones are covered with a layer of turfy soil and the stone work built over it. These stones have to be sandstone or other porous stones which will absorb the moisture easily and where the rootstalks can climb. A few pieces of cork bark can be mixed with it. The whole construction has to be made with taste. Little soil has to be used and that must be porous. Sandy peat is the best. Once planted, a little fresh moss can be added, then the bottom is filled with water and the glass cover put tightly over it. They have to be let alone; there is no need whatever to lift the glass cover, only when it is necessary to put fresh water in the bottom and that is seldom the case, the condensed evaporation dropping back, except what is absorbed by the plants. Filmy ferns have been grown that way with better success than in greenhouses where it is generally too warm and where a special corner has not been prepared for them.

Filmy ferns are found in nature growing in cool situations surrounded by very damp atmosphere. New Zealand and Australia are their headquarters. Some are found in the Andes of Chili, in the mountains of East and West Indies, a few in the United States or in Europe. Those from Central America and South Sea

Islands require more heat. They are found climbing on the foot of tree ferns and over fallen trees; some creep in the moss, some grow over damp roots. The *todeas* are the only ones which grow in decayed wood and leaf mould. A little cool cave or a miniature ravine built in a corner of a conservatory where moisture enough can be obtained and planted with filmy ferns is a sight never to be forgotten.

A good way to grow them also is a pit three to four feet deep, with cement bottom to keep one or two inches of water, covered with sashes a little higher than the surrounding ground. A rock work can be built in it, but growing in pots is handier on account of the relatively small place, and they do not like to be disturbed. If pots are used half pots are the best, and they have to be put on bricks or reversed pots to keep them out of the water. That pit must be built on a shady north side or under a big spreading tree; in winter it can be covered with straw mats; the plants not being near the glass a few degrees of frost will not hurt them.

With a good drainage, the compost to plant them in is a mixture of broken sandstones or soft bricks with sandy peat, chopped sphagnum and coal dust. For those with thin hairy creeping rootstocks like most *hymenophyllums* the pots when filled with that mixture can be covered with fresh sphagnum and the plant put on top of it with a few hooks to make it hold; the rootstock must never be buried under the soil. For those with thick rootstocks which climb over rocks, like *trichomanes*, after being put on top of that mixture, the pot has to be filled up with the same stones between the roots. *Todeas* want more soil, but very porous, and drainage enough to avoid danger of stagnant water on the roots.

Filmy ferns want to have their fronds always moist; if once withered they come to life no more, but they should not be sprinkled. The surroundings must be kept moist enough so that the condensed evaporation keeps the fronds moist; it is only in very dry weather when dampness enough can not be kept that sprinkling with soft water is necessary, but it does more harm than good. They are never nicer and healthier than in the fall when the cool air is bringing much condensation and

the fronds are dripping with moisture. Being always surrounded by dampness, they do not need much watering but that has to be looked after anyway.

Filmy ferns are represented only by three genera *Hymenophyllum*, *Trichomanes* and *Todea*. They are all of very delicate texture, have only mid ribs and no side ribs. Some are very finely and some broadly divided; some look more like sea weed than ferns; some have fronds not over one inch long while others grow over one foot; some *todeas* have fronds over two feet long. Most of the filmy ferns are of very dark green color while some are very light green and some are covered with hair; these last ones cannot stand overhead sprinkling. They are all very showy when well-cultivated. These are a few of them which we have in cultivation:

Hymenophyllum: *Asplenoides* from Central America is a small species; *caudiculatum* from Chili or Brazil, a strong growing species with a tail-like appendage at the end of the frond; *crispatum* from New Zealand, crispy frond, dense in habit; *demissum*, South Sea Islands, fine divided, free growing; *flexuosum*, New Zealand, large growing and finely divided; *Forsterianum* from Brazil, large growing fronds, light green and undulated; *tunbridgensis* from Europe, a small growing species making big turfs mixed with moss.

Trichomanes: *Alabamensis*, from the United States, has narrow crowded egg-shaped fronds; *angustatum*, Japan and Java, light green in color, very delicate; *auriculatum*, Japan, a wide-creeping species, frond stalkless, narrow and long, broadly divided; *Luschnatianum*, from Brazil, a very nice species; *maximum*, Java, a strong growing species; *radicans* (Killarney fern), from Europe, are all over the world, one of the nicest of which there are a few varying forms; *reniforme*, New Zealand, has the fronds entire and kidney-shaped; *trichodeum*, West Indies, very delicate species, fronds divided in hair-like divisions.

Todea: *Pellucida* (*hymenophylloides*), New Zealand, has a thick fibrous trunk and long-stalked, large, very delicate fronds; *superba*, New Zealand, the nicest of all the *todeas*, frond long and very finely divided; *Fraserii*, from New Caledonia and Australia, has a fibrous trunk like *osmunda*, big broad fronds, very delicate in texture; *Wilkesiana*, New Hebrides, a little filmy tree-fern, fronds nearly like *pellucida*.

Am. ed. Ham

Cattleya citrina

Cattleya citrina is one of the most fascinating of orchids. Its peculiar habit of growth with its leaves hanging downwards, looking exactly like a plant upside down, attracts the attention of almost everyone.

It is a native of Mexico and grows at a considerable elevation and is a true epiphyte. We sometimes see it grown on blocks, but do not consider this very kind treatment, as it is a plant which loves air and it is almost impossible to keep the roots moist enough on a block, and at the same time have the cool, airy conditions necessary to the welfare of the plant. A raft with about an inch of fern root and good sized pieces of charcoal at intervals will keep the roots moist without continual watering. Nothing sour should be allowed near the roots.

The best plants the writer has seen were at the Royal

Botanic Garden, Edinburgh. These were grown in ordinary teak baskets hung vertically, not against a wall or glass partition, but near the centre of the cattleya house where the air could circulate around them. The plants were dipped and allowed to drip in such a way that the foliage never got wet which was perhaps partly the reason why the plants were in such fine condition. The leaves are glaucous and are covered with a waxy bloom which, with the pendant habit of the plant, may be taken as an indication that nature did not intend that the foliage should remain wet.

The flowers are very attractive and appear in May and June and are also pendulous, yellow, and very fragrant.

James Hutchinson

Pittsburg, Pa.

Lilium Brownii

The typical *Lilium Brownii* is said to have been cultivated in Europe since 1838. *Lilium Brownii* has on many occasions been referred to as a native of China, yet there is no record of its ever having been found there.

The origin of *Lilium Brownii* seems to be obscure. It appears that its name first occurred in the catalogue of F. E. Brown, a nurseryman of Windsor, England, about 1838 or 1839. Whatever be its origin, *Brownii* is a magnificent lily which has often been considered to be the problematical *Lilium japonicum*. Its large trumpet-shaped flowers are of a thick and wax-like texture; inside they are white and on the outside heavily suffused with chocolate coloring. In the bud state this chocolate coloring is most marked. Among importations of lilies from China there have been some forms of this, the principal one being that represented in the accompanying colored supplement, namely, *Lilium Brownii leucanthum*, which was awarded a first-class certificate by the Royal Horticultural Society last year. This lily was first sent to Kew by Dr. Henry in 1889, and during recent years it has been imported in considerable quantities. It is a vigorous grower, the stems reaching a height of 4 to 5 feet. The long-tubed flowers are creamy white with a ruddy tinge outside and having a yellow throat.

Lilium Brownii Chloraster is also a beautiful form of *Brownii* received in importations from China. It differs from the variety illustrated by its brownish stem, narrower leaves, and less drooping flowers. It is also noteworthy on account of its having been used as one of the parents of the beautiful hybrid *Lilium Kewense*. The other parent of the latter was *Lilium Henryi*.

Writing about *Lilium Brownii* a well-known grower says: "No mention of *L. Brownii* and its varieties would be complete without directing attention to a lily which botanists persist in calling a variety of *L. japonicum* (Krameri of gardens). The lily in question is that which used to be called *Lilium odorum*, now called *L. japonicum Colchesteri*. It has nothing to do with *L. japonicum*. It is undoubtedly a form of *Lilium Brownii*."

Harry H. Thomas

Magnolia Watsoni

In the Garden Magazine for this month its editor, Mr. Wilhelm Miller, has an excellent monograph on magnolias. His meagre account of *Magnolia Watsoni* can easily be excused, because very likely he never saw the plant in bloom. Any person who ever saw this plant in bloom could never forget it this side the grave; that is, if he has the sense of smell.

Mr. Miller says this plant has failed in England and hopes that it may prove hardy here. I cannot see why it should be a failure in England, if they are not coddling it too much or giving it the same treatment they give to *Hydrangea paniculata*; that is, growing it in pots and giving it the protection of a cool greenhouse.

I am glad to be able to let Mr. Miller know through the pages of HORTICULTURE that *Magnolia Watsoni* is perfectly hardy in Massachusetts. About two weeks ago I discovered a plant in Mr. Harry Rand's garden, North Cambridge, Mass. When the plant blossomed about a week ago Mr. Rand sent me some material to have it identified at the Gray Herbarium. To my great delight it turned out to be nothing less than *Magnolia Watsoni*.

This is a remarkable plant! It is not as showy as some of the other Japanese species of magnolias but its great charm lies in its delightful fragrance and the length of time it produces its blossoms. It is very strange that we did not hear about this plant before as it has been grown in the above garden for twelve or fourteen years, and has blossomed many times before this year. It was obtained from the Shady Hill Nursery when the nursery was located at the corner of Beacon and Kirkland streets, Cambridge. The shrub is of large dimensions now, and has stood many severe winters. It is fifteen feet high and about eighteen in breadth. Even when it is not in blossom it makes a pleasing plant. Its foliage is bright and clean and is not often molested by insect pests.

Its flowers do not open all at the same time, therefore it is not as showy as one might expect it to be. However, this is not a misfortune as it produces flowers for five or six weeks consecutively and their delightful fragrance is enjoyed in the garden for that length of time. The flowers are from four to six inches across when they are open. When open they are more showy on account of their bright-colored filaments but to one they are more pleasing when they are in the bud state, just about ready to expand. They are pure white then and much more fragrant. The fragrance is much like pineapple but, if anything, more pleasing.

The plants of *Magnolia fuscata* (*Michelia fuscata*) which were exhibited by Mrs. John L. Gardner at Massachusetts Horticultural Hall last Saturday, June 2nd, were admired by every one, not for their blossoms but for their fragrant flowers. The fragrance of *Magnolia Watsoni*, I would be willing to say, is one hundred per cent. stronger and one blossom will fill the largest room with fragrance.

Like all other Japanese magnolias it prefers a sheltered position and a rich and well-drained soil. Nurserymen should make a note of this plant. When it is once known there will be a big demand for it.

There is an excellent plate of this plant in the Botanical Magazine table 7157.

Nephrolepis Piersoni



This picture shows what can be done with the original Pierson fern. It represents a plant at the Hunnewell conservatories, Wellesley, Mass. The plant is in a 12-inch pan, is five feet across and seven feet deep. It has not had any special culture other than to see that it got plenty of water.

Rhododendron fragrantissima

SEE FRONTISPIECE

The accompanying photograph is of a Himalayan rhododendron, *R. fragrantissima*. The specimen is nine feet high and seven through. Of a number of species and varieties this is the easiest to grow, and one of the best white-flowered ones. Mr. Harris, my predecessor, did not succeed in blooming it. It always set buds well, and it was only by accident that we got it to flower. We did as he had done—stored it with other tender rhododendrons, which sometimes were subjected to a few degrees of frost. One autumn it was put in early—with the Indian azaleas. It held its buds and bloomed magnificently the following spring. Then it missed a season, and just because it got a slight autumn frost, which did not even injure the Indian azaleas. Then we knew the reason why it had not bloomed before.

It will thrive in good loam with a little peat and sand, and will take liquid manure occasionally when making its growth. The flowers are pure white, widely campanulate, 4 to 5 inches in diameter, and powerfully fragrant.

Robert Cameron

J. D. Hatfield

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager.

The United States Express trouble

The refusal of the United States Express Company to give any explanation of their peremptory raising of the rates on cut flower shipments from New Jersey points, places them in a very unfavorable light, and, in a measure, gives justification for the charge that the move is simply vindictive and tyrannical. The rival "wagon express," which has been running successfully ever since the trouble a few years back, and which perhaps is the irritant back of this rough-shod action of the big company, affords an easy relief for shippers within a restricted area but, to those outside of those limits, is worse than useless. In the absence of evidence to the contrary it is reasonable to assume that the rates formerly charged by the U. S. Express Company and still in force with every other company are sufficiently remunerative. It is recorded that one of the express companies—the Wells-Fargo—has earned 40 per cent. annually for the past four years. These companies oppose all parcels post legislation. Mr. Grower, where do you stand on this question? On several occasions the request has been made through the columns of this and other journals that readers urge their respective congressmen to take favorable action on the bill establishing a parcels post service. How many have done so?

Where the Society of American Florists and Ornamental Horticulturists leads

Society meetings and conventions are crowding closely one on the other and the greatest convention of the year so far as attendance, enthusiasm, and recreation count—that of the S. A. F. at Dayton—is now but two months away. This organization, with its sweeping charter and comprehensive scope, belongs to no special interest or division of horticulture but is equally concerned with the welfare of every department—florist, plantsman, seedsman and nurseryman. That the influence of the Society of American Florists and Ornamental Horticulturists is

not felt in some directions as effectively as in others is due, in part, to the activity and direct usefulness of some of the special organizations, and, in part, to a more or less general misapprehension as to the legitimate sphere of this society. A closer affiliation between the growers of outdoor ornamental material and the producers of indoor decorative stock is much to be desired. These interests are both growing, have much in common, they cater to the same sentiment and serve the same people; many concerns embrace both departments and many more will do likewise in the near future. That the Society is fully alive to the situation and its duty in the premises, is well evidenced by its generous provision for an outdoor exhibition at Dayton this season. Whether the trade for whose benefit this step was taken is far-seeing and discerning enough to take advantage of the opportunity thus provided, time will disclose. But it is the Society's province to lead and there is always room in the front rank for the man of progress. Keep your eye on Dayton.

The high art of arrangement

The art of arrangement and grouping, whether applied to the disposition of material in cut flower work, the arraying of plants in the exhibition hall, the planting of garden beds, or the massing of trees, shrubs and flowers for landscape effect, calls for qualities which comparatively few possess, judging from much of the work we see from day to day and for which either the artist or his employe must be held responsible. In nature there is a proper place for everything and the workman who is able to rightly interpret nature's purposes and methods will not go far wrong if he proceeds accordingly and does not permit his judgment to swerve under the dictates of fad, expediency, sensationalism or the mandates of an imperious patron, as in the case of a certain wedding where the mother of the bride insisted on the decoration of the mansion with the brightest red flowers obtainable, in defiance of all accepted sentiment and fitness, with the object of intensifying by contrast her daughter's white apparel and making all else subjective to the central figure in the performance. In the outdoor planting of ornamental material we often find, on the one hand the made-to-order landscape architect with his stereotyped treatment, on the other the enthusiastic plant lover who insists on filling his garden with a jumble of everything that looks pretty in itself, without regard to its relation to its surroundings. To such a one it is next to useless to expound the merits of "mass" grouping or to try to convince him that he should cast out four-fifths of his treasures for the sake of breadth and bold effect. Going back to the other extreme—we have in mind a half acre suburban lot which the owner turned over to a professional landscape architect who proceeded to lay it out with the regulation blocks of cornuses, kerrias, peonies, yuccas, retinospores, etc.; the owner wanted to be in the fashion and he got there. The adornments of a certain public ground at present include a number of beds of azalea mollis with the tall spires of foxgloves intermingled. A discordant and unnatural mixture surely; how superbly effective those foxgloves would be if placed in an unstudied "colony" against a tall dark background of foliage. Instances innumerable might be cited to show that we all gardeners, landscape architects, florists and amateurs have yet much to learn of the rudiments of our "high art."

NEW WICHURIANA HYBRIDS.

Some five years ago Hoopes, Bro., and Thomas introduced a set of six new hybrid Wichurianas that were meritorious. The varieties named Wm. F. Dreer, Robert Craig and Edwin Lonsdale were the best of the six. This firm has been working along the same lines since and their recent exhibition of other new varieties at Horticultural Hall, Philadelphia, shows a distinct advance. Only two of the new ones, Christine Wright and Columbia, are named as yet, the balance being shown under number. Christine Wright is a lovely pure silvery rose, fine both in bud and when full blown. It has large petals, and is quite full to the centre. Columbia is a clear daybreak pink shading to blush, lovely in the bud and also when open. It is semi-double but, charming even when full blown. Both this and Caroline Wright are of fine substance. No. 32 is a dark rose, a cross between Wichuriana and American Beauty, the fragrance of the latter being very apparent. A fine thing. No. 33, crimson, a cross with Gruss an Teplitz, lacks form and substance but good color. No. 41, lighter in color than 33, and like that variety lacks form and substance. No. 42, pure white, small but fine form and substance, similar in character of bud to Robert Craig but smaller and pure white. No. 45, deep crimson, better substance and form than 33. No. 56 is similar to Christine Wright but a lighter shade. No. 58, rose, very double and good form, lacks substance, small petals. No. 43, blush passing to white; large; fine form in the bud but not quite so good as Columbia when open, being a little lacking in substance.

Altogether these new varieties are far in advance of the original six and are well worth the attention of rose lovers.

G. C. W.

PERSONAL.

Mrs. M. B. Faxon, the seedsman's wife, is in Boston on a visit to her mother and sisters. Mr. Faxon is with the Livingston Seed Company, at Columbus, Ohio.

Among the visitors to HORTICULTURE'S office this week were Samuel Murray, Arthur Newell and wife of Kansas City; W. C. Langbridge of the Jerome B. Rice Co., Cambridge, N. Y.

Mrs. Cameron, wife of H. L. Cameron, of North Cambridge, sailed on the steamer Ivernia, June 12, to visit London. Mr. Cameron will join his wife in Scotland a month later. They intend touring Europe for two months, returning in September.

Miss Clara Hayden, daughter of C. H. Hayden, the well-known florist of Dexter, Me., was married on June 6th at the residence of her parents to Dr. H. M. Crassland of Dexter. After the ceremony the happy couple started for Boston and the Berkshire Hills on their wedding tour. On their return they will spend the summer at their cottage at Ocean Park, Me.

WHOLESOME CHESTNUTS.

Stop syringing grapes when they begin to color.

One good large peach or nectarine is worth a dozen poor, small ones. Don't be afraid to thin the fruit; they cannot possibly do any harm after they are severed from the branch but on they might.

Keep on watering out-door roses if the ground is at all dry.

Get to thinking about sowing seed of herbaceous plants for next season's flowering.

Find out all you can about peonies; it will be worth something by and by.

Have you seen *Nephrolepis Whitmanii*? It is certainly a beauty and the best of it is that it is a shapely specimen in all its stages of growth. Get one and multiply.

If you have anything good out of the ordinary, send it to the exhibition and let the other fellows see it. Don't expect a gold medal for it.

If you have no herbaceous plants you should get to see someone who has. There are some beautiful things coming into bloom now; if you only could see them many of them or their kind would this fall or next spring find a home on your place.

ALL RECEIVED IN ONE DAY'S MAIL.

"Plants All Gone."

HORTICULTURE:

Discontinue our ad. Plants all gone. Send bill to us and oblige.

HAMMERSCHMIDT & CLARK.
Ohio.

"Worth the Price."

Notify when this expires, as I want to renew. The discussion on mechanical watering is worth the price.—L. A. District of Columbia.

"The Greatest Paper Out."

Inclosed find \$1 to pay for HORTICULTURE, the greatest paper out on scientific floriculture; it is all right.—H. L. Nebraska.

"Fifteen to One."

Dear Sir:

Inclosed find \$1 to place my ad. in paper one more week. Have sold \$15 worth already from my \$1 ad. of last week.

Yours truly,
G. H. W.
Massachusetts.

"One of the Two."

Gentlemen:—From our recent gladiolus advertisement, inserted in three trade papers, but two of the three so far as we know brought us any orders. One of the two was HORTICULTURE.

Yours truly,
WM. ELLIOTT & SONS.
New York.

SOME GOOD PEONIES.

We are indebted to Mr. C. W. Ward of Cottage Gardens, for the photographs from which were made the series of handsome peony illustrations published in successive issues of this paper.

NEWS NOTES.

Robert M. Leavitt of Elmira, N. Y., sustained a loss of about \$500 through a fire in the building which he occupies. Insurance covers it.

Alex. McConnell has moved his floral establishment to the Windsor Arcade, 571 Fifth avenue, New York, a larger and more commodious building.

M. Alexis Callier has been appointed president of the Societe Royale d'Agriculture et de Botanique de Gand to succeed the late Count Kerchove de Denterghem.

The entire establishment of George Lorenz of Astoria, L. I., N. Y., together with all the plants in greenhouses and the outdoor stock will be sold at auction on June 20.

A terrific hail storm swept through Ontario County, New York, on the morning of June 10, doing serious damage to greenhouses and nursery stock in Canandaigua and vicinity.

The boiler house and ends of four greenhouses at W. & K. Pedersen's establishment, St. John, N. B., were destroyed by fire on June 9. The loss, which is estimated at \$1,000, is covered by insurance.

The publication of the *Revue de l'Horticulture Belge*, edited by the late Count Kerchove de Denterghem, is to be continued under the direction of M. Charles Pynaert, assisted by Messrs. DeNobele, A. Van den Heede and Verdonck.

It is estimated that the W. & T. Smith Co. of Geneva, N. Y., lost \$100,000 by the storm of wind and hail that swept over that section last Sunday. Growing nursery stock was fairly battered into the ground. Fruit growers in that locality are all heavy losers.

In the *Queensland Agricultural Journal* for March, 1906, F. Manson Bailey describes a new white-flowered dendrobium, of the *Aporum* section. It is a native of British New Guinea, and is said to be well worthy of cultivation. The name given to it by Mr. Bailey is *D. litoreum*.

SAN JOSE SCALE.

Department of Agriculture,—Division of Zoology, Harrisburg, Pa.
Editor HORTICULTURE.

Dear Sir:—Noting that on page 385 of HORTICULTURE you have referred to my statement as to the use of the Lime-sulphur Wash for the San Jose Scale, I beg to say that I am correctly quoted therein, and I can assure you that we have had excellent results in spraying with the Lime-sulphur Wash, without the Salt, applied when the trees were dormant. Nothing has proven as cheap, nor as beneficial to the trees, nor as sure in killing the San Jose Scale. It will not, however, act as a certain remedy for the Oyster-shell Scale, although we have had good results in using it for the Scurfy Scale.

Very truly yours,

H. A. SURFACE,
Economic Zoologist.

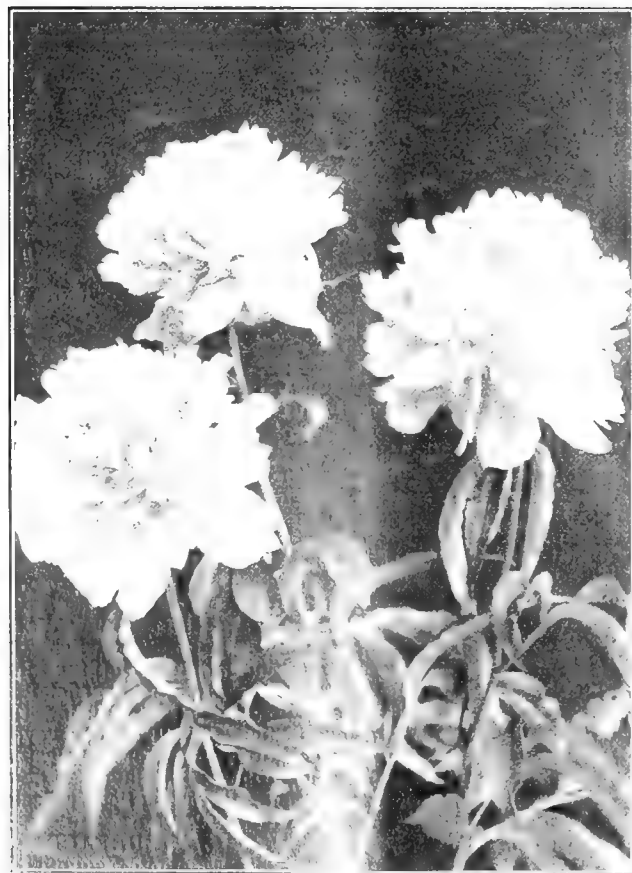
Some Good Peonies



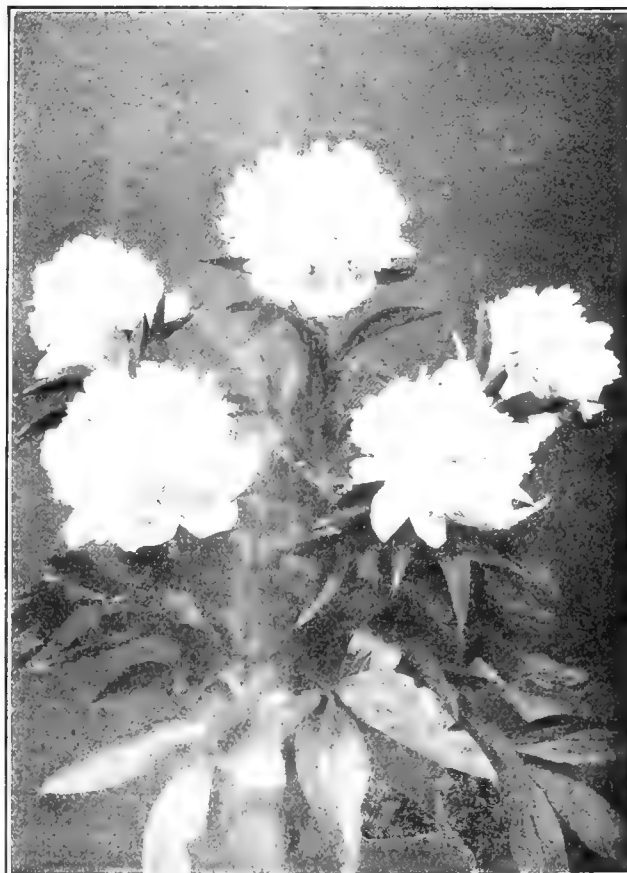
LA TÊTE
Coral white tinted blue, pink spots



M. L. C.
Delicate flush



ROSE QUEEN
Pink flush



P. HERIMA
Pink flush



COURONNE D'OR
Creamy white, centre petals tipped purple, late.



HENRI MURGER
Deep rose, late.

NEWS OF THE CLUBS AND SOCIETIES.

PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The subject for the meeting June 5th, was "Peonies and Other Out-Door Blooms," but on entering the hall it was apparent that the peony was queen of the evening and the "other out-door blooms" but humble attendants on her Majesty.

The principal out-of-town exhibitors were Messrs. T. Meehan & Sons and H. A. Dreer of Philadelphia, and C. Betscher of Canal Dover, Ohio. The season was nearly over with Eastern exhibitors, and with one of them the plants had been divided and set last fall, so that their flowers were at something of a disadvantage, but they were in large variety, carefully labeled and pleasing colors.

Among the Meehan peonies *Delicatissima* was noted for its pleasing color, and *Couronne d'Or*, *Charlemagne* and *Marie Lemoine* were notable among the Dreer peonies.

It was evidently the height of the season with the Ohio peonies for almost without exception they were magnificent hemispheres of loveliness. The light and rosy pink section seemed the best and particularly noticeable were, *Lady Bramwell*, *Duchess d'Orleans*, *Floral Treasure*, *Jenny Lind*, *Edules Superba*.

In whites there seemed nothing better than *Festiva Maxima*, and it was something of a surprise that this variety introduced to the trade in the 50's, should still stand at the head of the list. The *Edules Superba* also shows up well with only a few pink superiors. The size and fragrance of the peonies shown was a revelation to many of us, and it certainly looks as though the present peony enthusiasm was founded upon a substantial basis. Schenley Park Conservatories showed very fine white peonies, *gaillardia*, *pyrethrums*, *columbines*, *oriental poppies*, and a general collection of seasonable flowers. S. J. Wolfe of Emsworth showed *clerodendron*, *poppies*, *dahlias*, *peonies* and *pyrethrums*. F. Burki, Gibsonia, Pa., a good collection of peonies.

The July meeting of the club will be a business one to arrange details for the annual picnic.

H. P. JOSLIN, Secretary.

NEWPORT HORTICULTURAL SOCIETY.

The Autumn exhibition of the Newport Horticultural Society will be held August 13, 14 and 15 in the Casino on Bellevue avenue. The Casino is the best place wherein to hold such an exhibition as the one in prospect promises to be; not only is the main hall large and well lighted but the piazzas, which are also placed at the society's disposal, are exceedingly well adapted for the gateway and other out-door decorations which will be a feature of the exhibition this year. The schedules were somewhat delayed on account of uncertainty of the dates, but they will be ready for mailing Saturday of this week, and can be had on application to D. McIntosh, Ledge Road, Newport.

NEW YORK FLORISTS' CLUB.

There was a fair attendance on Ladies' Night and a very pleasant sociable evening was spent by the members and their ladies. The routine business was put through with commendable expedition. Mr. Pepper reported for the outing committee that the indications are favorable for a large party on the excursion, July 2. Tickets are ready and the program will be completed in a few days. Mr. O'Mara on behalf of the special committee appointed to interview the U. S. Express Company, reported that the officials of that company had declined to comply with the request for a consultation and had taken the ground that the matter of express rates was something that concerned only the company and the individual shippers. The committee would still keep working on the matter and would thank shippers for any further information they could supply. On the matter of a club contribution for San Francisco the secretary was authorized to communicate with the secretary of the California Horticultural Society and report later. Resolutions were adopted extending sympathy to Messrs J. B. and W. F. Nugent and Peter T. DeVoy on the recent bereavements in their families.

On the exhibition table were some fine peonies from C. W. Ward and Charles Lenker, the latter including some superb Japanese varieties. Also a collection of *Cattleyas gigas*, *Mendelli*, etc., from Lager & Hurrell which was awarded a cultural certificate. Among the finest varieties were *Mossiae Summitense*, *M. virginalis* and *M. Reineckiana*. H. Beaulieu showed peonies and pansies, P. Neihoff his rose-named *Columbia* and H. H. Barrows six plants of *Nephrolepis Whitmani*.

Business being closed the rest of the evening was given up to entertainment, singing, etc. An excellent collation was served and each lady received a bunch of roses.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The club will hold its next field day on Tuesday afternoon, June 19, at the estates of Mr. Larz Anderson and Mrs. W. C. Brandegee in Brookline. Members and friends are asked to meet at the Soldiers' Monument, Centre Street, Jamaica Plain, at 3 o'clock.

Electric cars will leave for Horticultural Hall at 6 o'clock, where refreshments will be served at 7.30 sharp. Any members who are, from any cause, unable to attend the field day, are invited to be present at the hall in time for the refreshments, which will be specially seasonable.

In lieu of a regular lecture at the club meeting there will be a general discussion of seasonable topics, answers to queries from the question box, and making arrangements for the club's coming picnic.

Contributions of peonies and hardy roses, or any other flowers, are invited for our exhibition table.

No meetings will be held during July and August.

W. N. CRAIG, Secretary.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

The ninth annual meeting of this association convened at the St. James Hotel, Washington, D. C., at 10 A. M., on Tuesday, June 12, President Theodore Wirth in the chair and about twenty members in attendance. The president read his address which was a well-considered and practical document and was followed by the secretary-treasurer J. W. Duncan, who presented his annual report showing a small balance to the good and a membership of seventy-five. After sundry committee reports resolutions on the death of O. F. Dubois of Peoria, Ill., were adopted. W. R. Smith of Washington was elected an honorary member and six new annual members were elected. The afternoon was devoted to an automobile ride about the city and through Rock Creek Park. At the evening session, J. A. Pettigrew read a paper on the treatment of park woodlands which proved exceedingly interesting and instructive and was discussed at length.

Officers were elected as follows: President, Byron D. Worthen, Manchester, N. H.; vice-presidents, John Chambers, Toronto, Ont., J. W. Duncan, Boston, F. Nussbanner, St. Paul, Minn., J. F. Cowell, Buffalo, N. Y., Chas. E. Keith, Bridgeport, Conn.; secretary-treasurer, F. L. Mulford, Harrisburg, Pa.

Toronto was selected as the place for the next meeting.

Wednesday was devoted to a trip to Mt. Vernon and Arlington. Wednesday evening was enjoyed as a guest of a number of the Washington fraternity.

COLUMBUS FLORISTS' CLUB.

The regular June meeting of the club took place last Tuesday evening at the headquarters in Iroquois Hall. The night, although very warm, brought out a goodly number of members. President Stevens was in the chair, and Secretary McKellar was, as always, promptly on hand. After much routine business had been gone through with, and the treasurer's report submitted, showing the financial end to be in satisfactory condition, the real business of the evening was taken up. The club has two things on its mind—a chrysanthemum show this autumn and a bowling team for Dayton this summer. Time will tell its own story, as regards the latter. The meeting was very enthusiastic, as regards the "Mum" show. Last year was the first one ever held here, and resulted as follows: An admission of 25 cents to adults and 10 cents to children was charged and something like \$325 was realized, with expenses about \$200. Of course lots of hard work was done to accomplish such a good showing. A committee is now canvassing the craft and will report at the next meeting how the trade feels regarding another attempt this fall. The show matter was discussed by Messrs. Bauman, Hill, Faxon, Seibert and Reicher. It looks now as if 35 or 40 of the craft would attend the Dayton convention. The next meeting will be Tuesday evening, June 19.



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CINCINNATI FLORISTS' SOCIETY.

At the annual meeting of this society held on Saturday evening, June 9, the following officers were elected to serve for the ensuing year: President, Wm. Murphy; vice-president, T. B. George; secretary, C. J. Ohmer; treasurer, D. Rusconi; trustee, R. Witterstaetter.

An invitation has been extended to all florists, whether members of the society or not, to be present at this meeting. Arrangements are being made for the Dayton meeting of the S. A. F., and it now looks as though Cincinnati would be well represented. If possible those who attend will go by special train. The transportation committee, consisting of Messrs. Ohmer, Witterstaetter, Olinger and Murphy, have the matter in charge.

The picnic question was again brought before the society. Those in favor of continuing the annual outings rallied their forces and carried the day. Messrs. H. Schwarz, Benj. George, George Murphy and Wm. Speck were appointed to make all necessary arrangements, and the third Thursday in July seemed to be the most popular date. C. E. Critchell is getting up a bowling team for Dayton. If you can bowl see him and go along.

OUT-DOOR ROSE SHOW AT PHILADELPHIA.

A small but meritorious exhibit of out-door roses was held in Horticultural Hall under the auspices of the Pennsylvania Horticultural Society on the 7th and 8th insts. William Robertson carried off four firsts, his flowers being extra fine in all entries. His first prize six consisted of white Baroness, Baroness, Margaret Dickson, Paul Heyron, Magna Charta and Ulrich Brunner. Other prize winners were James W. Paul, J. Walter Lippincott, C. A. Griscom, H. B. Rosengarten, H. W. Biddle.

NEW BEDFORD HORTICULTURAL SOCIETY.

At the monthly meeting of this society held in the rooms of the Y. M. C. A. building on June 11 it was decided to hold a spring show in 1907. The matter was placed in the hands of the executive committee for action. A very interesting discussion took place confined chiefly to herbaceous plants. A date for the annual rose show will be announced later.

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CLUB AND SOCIETY NOTES.

The annual rose and strawberry exhibition of the Massachusetts Horticultural Society will be held on Friday and Saturday, June 22 and 23.

The Connecticut Horticultural Society at the meeting on June 8, decided to hold an open-air meeting at the rose garden, Elizabeth Park, Hartford, on June 23. J. F. Huss exhibited a collection of herbaceous flowers and shrubs and received a certificate of merit.

The New Hampshire Horticultural Society will hold its annual field meeting with Prof. J. W. Sanborn in Gilmanton on June 27.

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SEED TRADE TOPICS.

Much needed rains have gladdened the hearts of farmers and seed growers throughout the east, and in Michigan and Wisconsin. The pea crop, which was very near the point where deterioration commenced, has been especially benefitted. As temperatures have been moderately high beans and corn have been greatly helped. The crop of peas for canning will be light. Delaware and Maryland have been estimated at 25 to 40 per cent., and Indiana not above 50 per cent. New York, Michigan and Wisconsin cannot be accurately estimated, but it is confidently predicted that they will not meet early expectations.

Retail seedsmen generally agree that business was unusually good during May.

Bloodsdales spinach is in very short supply this season, and as the crop of 1906 will hardly be available for this year's requirements prices are likely to soar. Dealers should beware of Bloodsdales spinach at low prices. It is said that some very reputable firms have already been victimized.

That justly popular seedsman, Jerome B. Rice, has recently purchased a large and powerful Pope-Toledo car. Mr. Rice is said to be opposed to scorching, and maintains that a speed of 25 to 30 miles an hour ought to satisfy any person of modest ambitions.

A Santa Clara county grower sent this week to HORTICULTURE'S San Francisco correspondent the following clipping from a San Jose newspaper: "More than three-fifths of all the vegetable and flower seeds grown in the world are produced in Santa Clara valley, California. The average annual crop of onion seed is 400 tons, or 800,000 pounds. Nearly 10,000 acres of land are under cultivation in that county for the growing of flower and garden seeds. The total crop amounts to something like 3,000,000 pounds annually. There are grown regularly for commercial trade in California 411 varieties of sweet peas, 72 of lettuce, 33 of onion, 32 of radish, 25 of beans, 30 of asters and 53 of nasturtiums, not to mention hundreds of other seeds less widely known. Of the many hundred varieties of flower seeds, asters pay the best. Next to sweet peas, they are the most extensively grown in Santa Clara valley, the average annual crop being about 50,000 pounds. The California climate is not unlike that of southern France and Germany, where the old world seed-growers have their grounds. In spite of the similarity, however, California seed growers succeed in harvesting their crops from four to five months earlier than do their foreign competitors."

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	Trade Pkt.	Pkt.
Calceolaria		
Hybrida Grand, mixed	.60	\$1.00
Hybrida Grand, Primula Compacta	.60	1.00
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Grand Prize, med. tall mixed	.60	1.00
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Primula Sinensis		
Michell's Prize Mixture. A splendid mixture of the finest separate colors	.60	1.00
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Grandiflora Hybrida mixed	.30	

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Low Prices to Close Out

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Caladium Esculentum		
4-5 l. ch	\$1.00	\$9.00
Gladolus		
Augusta, finest white	2.00	18.00
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Pink and variegated	1.00	9.00
Very choicest mixed	.90	8.00

Our wholesale catalogue of seeds and every requisite for the greenhouse and garden, free for the asking.

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They are the Finest and Largest Ferns ever sold.
 Bouquet Green, \$7.00 per 100 lbs. Bouquet Green Wreaths and Laurel Wreaths, all sizes and prices.
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It's the best to be had for all decorative work at this time of the year. Made fresh daily from the woods, 4c., 5c. and 6c. per yard.

Satisfaction guaranteed. No matter how large or small the order it will be filled promptly and with the best and freshest stock right from the woods.
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PHILADELPHIA NOTES.

Samuel J. Irvine has accepted a position as gardener to Philip J. Smith, Mt. Airy. Mr. Smith has recently added to his estate and will make some improvements on the grounds during the summer. There is some glass on the place already and four new houses will be built, besides a new dwelling house for the gardener. Mr. Irvine was seven years with Jno. Westcott and five years with Louis Burk.

William Rothe, late with Paul Huebner and Fred Hahman, succeeds S. J. Irvine as superintendent of the Grovedale Nurseries of Louis Burk.

Fred Ehret has moved into his new quarters, 1407-1409 Fairmount Ave., next door to his old place. The new establishment is nicely fitted up and will have a conservatory in the rear for exhibition and storage of plants.

L. H. Jones, a Chester florist, died in the hospital here on Sunday last after an operation and was buried on Wednesday. Many floral offerings were sent by the local trade and a number of the members of same attended the funeral.

D. T. Connor has improved his office quarters at the Philadelphia Flower market where he represents the Lord & Burnham Co. He has also recently moved his residence from 2033 N. 20th street to 5024 Pine street.

INCORPORATED.

The Terre Haute Rose and Carnation Company, Terre Haute, Ind. Capital, \$20,000. Directors, Edward Reiss, Charles M. Fortune and Henry Kranzke.

A charter has been granted to the McRae-Jenkinson Co., Cheswick, Pa., to do a general florist business. A list of the officers of the company was given in a previous issue of HORTICULTURE.

PUBLICATIONS RECEIVED.

"The Culture of Water Lilies and Aquatic Plants" is a beautifully illustrated pamphlet of 48 pages issued by Peter Henderson & Co., New York. It is a thoroughly practical and comprehensive treatise on the interesting topic of water gardening, yet is much more than an ordinary catalogue. The various topics of situation, pond construction, gardening in tanks, soil, planting, raising from seed, hardy and tender, day and night bloomers, bog and marsh treatment, fish, insects, etc., are all well covered, and no lover of aquatic plants should fail to send for a copy.

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	June 5		June 5		June 4		June 14	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	15.00	to 25.00	15.00	to 20.00	20.00	to 25.00	8.00	to 25.00
" Extra	8.00	to 12.00	10.00	to 12.00	15.00	to 18.00	6.00	to 8.00
" No. 1	4.00	to 6.00	6.00	to 8.00	12.00	to	4.00	to 6.00
" Lower grades	2.00	to 4.00	3.00	to 4.00	5.00	to 8.00	.50	to 2.00
Bride & 'Maid—Fan. & Sp.	5.00	to 6.00	3.00	to 4.00	6.00	to	4.00	to 6.00
" Extra	3.00	to 4.00	2.00	to 3.00	4.00	to 5.00	3.00	to 4.00
" No. 1 and Lower gr.	1.00	to 2.00	1.00	to 2.00	2.00	to 3.00	.35	to 1.00
Liberty, Fancy	8.00	to 10.00	.....	to	8.00	to 12.00	6.00	to 8.00
" Ordinary	2.00	to 4.00	.....	to	3.00	to 5.00	.50	to 3.00
Richmond, Fancy	8.00	to 10.00	10.00	to 12.50	8.00	to 12.00	6.00	to 10.00
" Ordinary	2.00	to 4.00	3.00	to 4.00	3.00	to 5.00	.50	to 3.00
Golden Gate, Fancy	3.00	to 6.00	3.00	to 4.00	6.00	to	3.00	to 5.00
" Ordinary	2.00	to 3.00	1.00	to 3.00	3.00	to 5.00	.50	to 1.00
Chatenay, Fancy	4.00	to 6.00	3.00	to 4.00	6.00	to	3.00	to 5.00
" Ordinary	2.00	to 3.00	1.00	to 3.00	3.00	to 5.00	.50	to 1.00
CARNATIONS								
Fancy	1.50	to 4.00	1.50	to 2.00	2.00	to 3.00	.75	to 1.00
Ordinary	.75	to 1.00	.75	to 1.00	1.00	to 1.50	.35	to .75
MISCELLANEOUS								
Cattleyas	40.00	to 50.00	.....	to	50.00	to 60.00	40.00	to 60.00
Lilies	6.00	to 12.00	6.00	to 10.00	10.00	to	5.00	to 8.00
Callas	6.00	to 12.00	6.00	to 10.00	10.00	to	5.00	to 8.00
Lily of the Valley	2.00	to 4.00	3.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Paeonies	2.00	to 6.00	.....	to .....	.....	to ..	4.00	to 6.00
Sweet Peas	.50	to 1.00	.25	to .50	.25	to .50	.15	to .30
Mignonette	.....	to	1.00	to 2.00	2.00	to .....	.....	to 1.00
Adiantum Cuneatum	.50	to 1.00	.....	to 1.00	1.00	to .....	.75	to 1.00
" Croweanum	.....	to .....	.....	to	1.00	to 1.50	.....	to 1.50
Smilax	10.00	to 15.00	12.00	to 15.00	15.00	to 20.00	12.00	to 16.00
Asparagus Plumosus, strings	35.00	to 50.00	25.00	to 50.00	35.00	to 50.00	.....	to 50.00
" " & Sprenger bunches	35.00	to 50.00	25.00	to 50.00	35.00	to 50.00	20.00	to 35.00
Lilacs per 100 bunches	25.00	to 50.00	to	to	to
Snapdragon	to	to	to	to

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CATALOGUE—It Is Free

CUT FLOWER MARKET REPORTS

BOSTON The market the last few days has been dull with only here and there a bright spot to give it a little activity. Flowers are in abundance with but a light demand. American Beauties with the exception of Golden Gate have the best demand in roses while carnations have little if any, the stock being poor. Lily of the valley are in fine condition and a good demand is soon expected while sweet peas are a glut in the market.

Severe hot weather the **BUFFALO** past week found the market in a bad condition. Roses, carnations, peonies and other stock was over-flowing. Carnations came in asleep, peonies overheated and roses in about the same condition. Very little business was done up to Friday and Saturday, when it seemed to liven up. The cemetery florists were on hand but cloudy weather and rain stopped the demand 50 per cent. and consequently much was either carried over or lost. Weddings and commencements are on but with the abundance of stock they are hardly noticeable in the wholesale market. Beauties were in better demand owing to a few large funeral orders. Select Bridesmaids are small but Kaiserins, Carnots and Richmonds are in fine quality. Same may be said of lily of the valley, sweet peas, Swansonias, lilies and orchids. The only thing that was really scarce was smilax, which was in good demand and prices held steady. Other green goods in good supply, demand fair.

The numerous June **CINCINNATI** weddings coupled with the usual number of school commencement exercises, have caused an unprecedented demand for flowers for this season of the year. Roses, with possibly the exception of Beauties, are hardly fit to use. Carnations are quite small and many of them are sunburned and attacked with thrip. Longiflorums, lilies of the valley and sweet peas are still in good shape and sell well.

There was quite a lull in the market last Saturday when the traction cars were obliged to stop running on account of the bursting of the water pipes. The growers within the city limits are in bad straits for water and with the thermometer above 90 degrees the situation looks serious.

COLUMBUS Good business continues; there has been brisk trade in all lines. The usual number of June weddings have taken place, with more to follow, counter sales have kept up remarkably considering the intense heat of the past ten days, funeral work has also been active, and to all this has been added the bouquets for the various school graduations. The sales of bedding plants keep right along with the seedsmen and growers; this business will of course end pretty soon; it will have to end, as everybody is about sold out. It has been an especially good season for the plant growers. It will not be very long now before the bulbs begin to come in. It certainly bids fair to be a most excellent bulb season, if we are to judge from the inquiries and advance orders. Weather very hot for June, and also very dry.

LOUISVILLE Business conditions were very satisfactory the previous week owing largely to commencement work. Carnations came in in good quantities, quality fair, and the demand was excellent. There were great quantities of good roses and they disappeared rapidly. The supply of peonies was greatly decreased but there were enough to meet requirements. Sweet peas were in abundance and were popular. Other stock continued normal.

NEW YORK The market is in a condition of complete collapse and has been so for the past week. Wholesale establishments are loaded up with everything imaginable in cut flowers, from forget-me-nots to tulip trees and there is no fixed price on anything. Roses are generally mildewed and poor. Peonies are still very plentiful but run rather small on the average. Carnations show signs of hard wear. There is no stable value on any flower in the entire list.

PHILA-DELPHIA The market was badly congested last week especially in carnations. These were a drag on the market and could hardly be sold at any price, even the fakirs would not touch them, they went to sleep so quickly on account of the hot weather. Business all along the line was in

decreased volume. Roses of all kinds are getting poorer as to quality and do not give satisfaction. Lily of the valley is in very good shape and a satisfactory item every way with the demand excellent. Cattleyas are in fair supply and have the call for choice work. A moderate supply of Easter lilies is coming in and the demand for them is excellent. Sweet peas are of fair quality, but they are not selling extra well. Plenty of gardenias around; demand weak. Peonies are still in fair volume although the flush of the crop is marketed. The late varieties will keep the market supplied for some time yet. Prices continue satisfactory.

BUSINESS CHANGES.

The Morrill greenhouses in Brewer, Maine, have been leased by F. P. Lane.

The firm of Powers & Gibbs, Ft. Wayne, Ind., has been dissolved by the withdrawal of Mr. Gibbs.

Messrs. Bryant and Arp have leased the Nichols & Lorton nursery atavenport, Ia., for a term of years.

Geo. Cotsonas & Co. have secured a lease for a term of years of the building at 50 West Twenty-eighth street, New York.

Karl Rosien of New Haven, Conn., has disposed of his business to Sokol Bros., who will grow for both wholesale and retail trade.

The Brant & Noe Floral Co. will again be a familiar name among the trade in the vicinity of Chicago, and the change will be marked by new houses with the latest improvements at Forest Glen.

The business heretofore conducted by Johnson & Carlson, at 3319 Northwestern avenue, Chicago, has been taken over by F. E. Carlson. Mr. Johnson has associated himself with J. J. Krutchen and they will carry on a commission business in the Atlas Building in the quarters recently vacated by George Reinberg.

The United States is Germany's best customer for potassium salts (kainit, etc.). In 1903, out of the 501,385 tons exported, 275,302 tons were sold to America, while in 1905 the sales to America were 440,892 tons out of 852,454 tons exported.

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Phil. F. Kessler

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Telephone 2021 Madison Square.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending June 9 1906	First Half of Week beginning June 11 1906		Last Half of Week ending June 9 1906	First Half of Week beginning June 11 1906
Roses			Carnations, Fancy	1.00 to 1.50	1.00 to 1.50
Am. Beauty and Edgeley fan and sp.	10.00 to 15.00	10.00 to 15.00	Carnations, Ordinary	.25 to .75	.25 to .75
" extra	6.00 to 8.00	6.00 to 8.00	Cattleyas	35.00 to 60.00	35.00 to 60.00
" No. 1	3.00 to 5.00	3.00 to 5.00	Lilies	2.00 to 5.00	4.00 to 5.00
" Lower grades	1.00 to 2.00	1.00 to 2.00	Callas	4.00 to 5.00	4.00 to 5.00
Bride & 'Maid, fan and sp.	4.00 to 5.00	4.00 to 5.00	Lily of the Valley	1.00 to 4.00	1.00 to 4.00
" extra	2.00 to 3.00	2.00 to 3.00	Paeonies	1.00 to 4.00	1.00 to 4.00
" No. 1 and lower grades	.50 to 1.00	.50 to 1.00	Sweet Peas, bunches	2.00 to 5.00	2.00 to 5.00
Liberty, fancy	6.00 to 8.00	6.00 to 8.00	Mignonette	.50 to 1.00	.50 to 1.00
" ordinary	.50 to 4.00	.50 to 4.00	Adiantum Cuneatum	.50 to .75	.50 to .75
Richmond, fancy	6.00 to 8.00	6.00 to 8.00	" Croweanum	.50 to 1.50	.50 to 1.50
" ordinary	.50 to 4.00	.50 to 4.00	Smilax	10.00 to 15.00	10.00 to 15.00
Golden Gate, fancy	4.00 to 5.00	4.00 to 5.00	Asparagus Plumosus	20.00 to 30.00	20.00 to 30.00
" ordinary	.50 to 2.00	.50 to 2.00	" & Sprenger, bunches	10.00 to 20.00	10.00 to 20.00
Chatenay, fancy	4.00 to 5.00	4.00 to 5.00	Snaptadragon	10.00 to 20.00	10.00 to 20.00
" ordinary	.50 to 2.00	.50 to 2.00			

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122 West 25th St., New York

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Our Mr. Jos. Stern has

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to buy your florist supplies and novelties for
the autumn. Buy of the enterprising florist
supply house

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FADELESS
SHEET MOSS**

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case

Send for Circular and sample

LYRATA

a lasting evergreen, takes the place of
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well worth trying.

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Give us a trial.

We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

Fresh Northern, \$1.50 per 1000.

LYRATA, the best substitute for Smilax, \$7.00 per case.

Headquarters for all FLORISTS' SUPPLIES. Wire Designs,
Cut Wire, Letters, Immortelles, Cypas Leaves, Wheat
Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main. 2618.

WHOLESALE FLOWER MARKETS.

PER 100.
TO DEALERS ONLY.

	CINCINNATI June 4		DETROIT June 5		BUFFALO June 11		PITTSBURG June 11	
ROSES								
Am. Beauty and Edgely, fan and sp.	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00
" extra.....	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	12.50	to 15.00
" No. 1.....	10.00	to 12.50	10.00	to 15.00	10.00	to 15.00	6.00	to 10.00
" Lower grades.....	5.00	to 8.00	6.00	to 8.00	5.00	to 10.00	2.00	to 3.00
Bride and Maid, fan and sp.....	.....	to 8.00	6.00	to 8.00	7.00	to 8.00	.....	to 8.00
" extra.....	5.00	to 6.00	5.00	to 6.00	6.00	to 7.00	.....	to 6.00
" No. 1 and Lower gr.....	2.00	to 4.00	3.00	to 4.00	3.00	to 6.00	2.00	to 4.00
Liberty, fancy.....	.....	to 8.00	6.00	to 8.00	6.00	to 10.00	.....	to 10.00
" Ordinary.....	3.00	to 5.00	4.00	to 6.00	3.00	to 6.00	.....	to 6.00
Richmond, Fancy.....	.....	to 8.00	6.00	to 8.00	6.00	to 10.00	8.00	to 12.00
" Ordinary.....	.....	to 4.00	4.00	to 6.00	3.00	to 6.00	4.00	to 6.00
Golden Gate, Fancy.....	.....	to 6.00	.....	to 6.00	5.00	to 6.00	6.00	to 8.00
" Ordinary.....	2.00	to 4.00	3.00	to 4.00	3.00	to 5.00	.....	to 4.00
Chatenay, Fancy.....	.....	to 6.00	6.00	to 8.00	.....	to 8.00	6.00	to 8.00
" Ordinary.....	.....	to 4.00	4.00	to 6.00	.....	to 6.00	.....	to 4.00
CARNATIONS								
Fancy.....	.....	to 3.00	.....	to 3.00	2.00	to 3.00	2.00	to 2.50
Ordinary.....	1.00	to 2.00	.....	to 2.00	1.00	to 2.00	.....	to 1.00
MISCELLANEOUS								
Cattleyas.....	.....	to 10.00	.....	to 12.00	10.00	to 12.00	15.00	to 20.00
Lilies.....	8.00	to 10.00	10.00	to 12.00	8.00	to 10.00	.....	to 10.00
Callas.....	.....	to 12.50	.....	to 12.50	.....	to 10.00	.....	to 10.00
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Peonies.....	.....	to 2.00	.....	to 2.00	2.00	to 5.00	.....	to 5.00
Sweet Peas.....	.35	to .50	.50	to .60	.30	to .60	.25	to .75
Mignonette.....	.....	to 1.00	1.00	to 2.00	.....	to 2.00	.75	to 1.00
Adiantum Cuneatum.....	.....	to 1.00	.....	to 1.00	1.00	to 2.00	.....	to 2.00
" Croweanum.....	.....	to 1.25	.....	to 1.25	1.25	to 1.50	1.00	to 1.25
Smilax.....	.....	to 15.00	.....	to 12.50	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, strings.....	.....	to 50.00	30.00	to 50.00	40.00	to 50.00	25.00	to 50.00
" & Sprenger, bunches.....	.....	to 35.00	.....	to 40.00	25.00	to 50.00	25.00	to 50.00
Gladulus.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Snapdragon.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00

Geo. A. Sutherland Co.
CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

Consult the Buyers' Directory and
Ready Reference Guide on pages 774
to 776.

The KERVAN CO. 20 WEST
27th ST., N. Y.

WHOLESALE DEALERS

Fresh cut Palmetto & Cypas Palm Leaves, Galax, Lew
other Ferns and Mosses. All Decorating Evergreens.

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Asparagus Plumosus Nanus.
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Asparagus Sprenger, 2 1-2-in., \$2.25 per 100. Otto Bourdy, Lowell, Mass.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

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A. Leuthy & Co., Roslindale, Mass.
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We have a good assortment of bedding plants. Write for prices. J. W. Colfesh, 53rd and Woodland Aves., Philadelphia.

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S. S. Skidelsky, Philadelphia, Pa.
Begonia Gloire De Lorraine.
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BERRIED PLANTS.

Jerusalem cherries, seedlings, 25c. per 100; 2 1-2-in. pots, \$3.00 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

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Canna, 4 varieties, 4-in. pots, 15 in. high, 3c. J. A. Keeney, Monongahela, Pa.

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10,000 fine potted stock ready to plant. 20 best sorts. List free. Benjamin Connell, West Grove, Pa.

Cannas, from 4-inch pots, leading varieties, fine stock. J. W. Adams & Co., Springfield, Mass.

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Rooted Cuttings.
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CENTURY PLANTS.

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CHRYSANTHEMUM PLANTS.

5000 best commercial sorts. List free. Benjamin Connell, West Grove, Pa.

COLEUS.

H. N. Eaton, So. Sudbury, Mass., Rooted Cuttings.
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Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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English ivy, two and three-inch stock. J. W. Adams & Co., Springfield, Mass.

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List? If Not, Why Not?

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FEVERFEW.

Feverfew, full bloom, 4-in., 3c. J. A. Keeney, Monongahela, Pa.

FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' FERTILIZER.

A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address J. W. Barwell, Blatchford's Calf Meal, Animal and Poultry Foods, Fertilizers, Karbo Dip, Seeds, etc., Waukegan, Ill. Established at Leicester, England, in 1800.

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H. M. Robinson & Co., 8-11 Province St., Boston.
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GARDENIA VEITCHII.

C. H. Totty, Madison, N. J.
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GERANIUMS.

Wm. S. Herzog, Morris Plains, N. J.
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A. M. Herr, Lancaster, Pa.
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Double pink geraniums, 4 in., 4c. J. A. Keeney, Monongahela, Pa.

GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin, N. Y.

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GLASS.

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., Boston.
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GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square, New York.

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Hitchings & Co., 1170 Broadway, New York.

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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.

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Weathered Co., 46 and 48 Marion St., New York.

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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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Chas. H. Manley, Premier Mfg. Works, St. Johns, Mich.

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GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for Florists.

Mineralized Rubber Co., New York.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston, Mass.

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The Kervan Co.,
20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 and 40 Miami Ave., Detroit, Mich., Wm. Dillger, Mgr.

Fancy Ferns.

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Crowl Fern Co., Millington, Mass.
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E. A. Beaven, Evergreen, Ala.

Fadeless Sheet Moss: Lyrata.

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HARDY PERENNIALS.

M. H. Walsh, Woods Hole, Mass.
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Wm. W. Edgar Co., Waverley, Mass.
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HEATING APPARATUS.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square, New York.

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Hitchings & Co., 1170 Broadway, New York.

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HEATING APPARATUS—Continued.

John A. Scollay, 73 & 75 Myrtle Ave., Brooklyn, N. Y.

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Gurney Heater Mfg. Co., 188-200 Franklin St., Cor. Pearl, Boston, Mass.

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Kroeschell Bros., 35 Erie St., Chicago.
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HOT-BED SASH.

The A. T. Stearns Lumber Co., Neponset, Mass.

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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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HOTHOUSE GRAPE VINES.

Rose Hill Nurseries, New Rochelle, N. Y.
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HYDRANGEAS.

Hydrangea plants in flower, 6-in. pots, \$3.00 per doz. J. W. Colbush, 53rd and Woodland Aves., Philadelphia.

IMPORTING HOUSES.

R. M. Ward & Co., New York.
Plants and Bulbs.

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Wm. Hagemann & Co., 55 Dey St., N. Y.
"Royal Clusters" Lilies.

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INSECTICIDES.

Nicotine Mfg. Co., St. Louis, Mo.
Nikoteen.

Hammond's Paint & S. S. Works, Fishkill, N. Y.

Horicum.

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JAPANESE PLANTS.

Yokohama Nurseries, 31 Barclay St., N. Y.
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LANDSCAPE ARTIST.

William Plumb, 1133 Broadway, New York.
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LEADING RETAIL FLORISTS.

Alex. McConnell, New York.
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Thomas Young, Jr., New York.

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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.

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George H. Cooke, Washington, D. C.

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Samuel Murray, 1017 Broadway,

Kansas City, Mo.

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Gude Bros. Co., 1214 F St.,

Washington, D. C.

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Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla. Tele-

graph or mail orders promptly filled. Long

distance telephone connections.

MASTICA.

F. O. Pierce Co., 170 Fulton St., New York.

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MOONVINES.

Godfrey Aschmann, 1012 Ontario St., Phila.
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MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.

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NURSERY STOCK.

Hart Pioneer Nursery, Fort Scott, Kansas.

John Waterer & Sons, Ltd.,

American Nursery, Bagshot, England.

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ORANGE TREES.

Julius Roehrs Co., Rutherford, N. J.
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ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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PALMS.

A. Leuthy & Co., Roslindale, Mass.
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PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
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PEONIES.

The Cottage Gardens Co., Queens, N. Y.
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George Hollis, S. Weymouth, Mass.
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Fine collection of Best Peonies. Complete Peony and Phlox Mannals, 25 cents each. C. S. Harrison's Select Nursery, York, Nebr.

PIPE FITTINGS.

Pipe, Valves and Fittings, Cuyler & Mohler, Baltimore, Md. Manufacturers' prices, F. O. B. your railroad station. Immediate shipment. Try us.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Primula Obs. Grandiflora. Seedlings, 25c. per 100; 2 1/2 in. pots, \$2.00 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

PUTTY.

Benj. Hammond, Fishkill on Hudson, N. Y.
Twemlow's Old English Glazing Putty.
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RHODODENDRONS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pye, Upper Nyack, N. Y.
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Rose Hill Nurseries, New Rochelle, N. Y.
Roses, Killarney.
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Benj. Dorrance, Dorranceton, Pa.

American Beauties, 2-in., \$55.00; 3-in., \$80.00 1000. Cash. J. Henry Bartram, Landsdowne, Pa.

Roses, 2 1/2-in. pots, Kaiserines and 300 President Carnots, \$4.00 per 100, \$35.00 per 1000. Cash with order or good reference. Wm. F. Kasting, 385 Elliott St., Buffalo, N. Y.

Roses, Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1/2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

2 1/2-in. pots, ready now. Baby Ramblers, Teas, H. P. Roses, 50 varieties, at \$30.00 1000; Crimson Ramblers, \$25.00 1000; Baltimore Belle, Dorothy Perkins, Pink, White and Yellow Ramblers, Queen of Prairie, Seven Sisters, etc., at \$20.00 1000. Gilbert Costich, Rochester, N. Y.

SALVIAS.

Salvias, 4 inch, \$6 per 100. A. F. Belcher, Foxboro, Mass.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass.

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SEEDS—Continued.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co.,
36 Cortlandt St., New York.
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H. F. Michell Co., 1918 Market St.,
Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
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A. T. Boddington, 342 W. 14th St., N. Y.
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James Vick's Sons, Rochester, N. Y.
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G. C. Watson,
Dobson Bldg., 9th and Market Sts., Phila.
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Conrad Appel, Darmstadt, Germany. Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O.
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STEAM TRAP.

E. Hippard, Youngstown, O.

VEGETABLE PLANTS.

Plainfield Nursery, Plainfield, Ind.
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Lord & Burnham Co.,
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Scollay, 73-75 Myrtle Ave.,
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Weathered Co., 46 and 48 Marion St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.

J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

VINCAS.

E. & C. Woodman, Danvers, Mass.
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H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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William Sim, Cliftondale, Mass.
Princess of Wales.
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C. Lawritzen, Rhinebeck, N. Y.
Marie Louise.

WEED KILLER.

Fairmount Chemical Co., Broad & Fair-
mount Aves., Philadelphia.
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American Horticultural Distributing Co.,
Martinsburg, W. Va.
Target Brand Weed Killer.

WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

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N. F. McCarthy & Co., 84 Hawley St.,
Boston.

George A. Sutherland Co., 34 Hawley St.,
Boston.
Welch Bros., 15 Province St., Boston.

Buffalo.

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Wm. F. Kasting, 383 1/2 Elliott St., Buf-
falo, N. Y.

WHOLESALE FLORISTS—Continued.**Chicago.**

A. L. Randall Co., 21 Randolph St., Chicago.

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J. A. Budlong, 37 Randolph St., Chicago.
E. H. Hunt, 76-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Av., Chicago.
Peter Reinberg, 51 Wabash Av., Chicago.
Vaughan & Sperry, 60 Wabash Av., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

Detroit.

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Michigan Cut Flower Exchange, 35 & 40
Miami Av. Wm. Dilger, mgr.

New York.

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Wm. Stuart Allen Co., 53 W. 28th St.,
New York.

J. S. Fenrich, 110 W. 28th St., New York.
Ford Bros., 48 West 28th St., New York.
H. E. Froment, 57 W. 28th St., New York.

Alex. J. Gutman, 43 West 28th St.
E. C. Horan, 55 West 28th St., New York.
Philip F. Kessler, 55 W. 28th St., New
York.

Julius Lang, 53 West 30th St., New York.
A. H. Langjahr, 55 W. 28th St., New York.
James McManus, 42 W. 28th St., New York.

Chas. Millang, 50 West 28th St., New York.
Frank Millang, 55-57 W. 26th St., New
York.

A. Moltz, 55 57 W. 26th St., New York.
John J. Perkins & Son, 115 W. 30th St.,
New York.

John I. Raynor, 49 W. 28th St., New York.
W. F. Sheridan, 39 W. 28th St., New York.
Traendly & Schenck, 44 W. 28th St., New
York.

Hicks & Crawback, Inc., 76 and 78 Court
St., Brooklyn, N. Y.

Philadelphia.

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W. E. McKissick, 1221 Filbert St., Phila-
delphia, Pa.

Leo Niessen Co., 1217 Arch St., Phila-
delphia, Pa.
S. S. Pennock, 1612 18 Ludlow St., Phila-
delphia, Pa.

Edward Reid, 1526 Ranstead St., Philadel-
phia, Pa.

Pittsburg.

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J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.

Pittsburg Florists' Exchange, 228 Diamond
St., Pittsburg, Pa.

New Offers in This Issue.**AUCTION SALE.**

Wm. Elliott & Sons, 201 Fulton St., N. Y.
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BEGONIAS LORRAINE, TURNFORD HALL.

J. A. Peterson, McHenry Ave., Westwood,
Cincinnati, O.
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ELECTRIC CIRCULATOR.

Holly-Castle Co., 170 Summer St., Boston.
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GREENHOUSE HEATING.

W. H. Lutton,
West Side Ave., Jersey City, N. J.
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KENTIAS BELMOREANA AND FORSTERIANA.

Hinode Florist Co., Inc., Whitestone, L. I.,
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NARCISSUS AND DAFFODILS FOR FORCING.

Post Bros., Ettrick, Va.
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PAEONIES.

J. F. Rosenfield, West Point, Neb.
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ROSES.

John C. Hatcher, Amsterdam, N. Y.
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SEASONABLE SEEDS.

H. F. Michell Co., Philadelphia.
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Facts YOU Should Know

I make a specialty of installing your heating apparatus, and installing it right. It is only fair to yourself that I should have an opportunity to estimate on your heating work.

Read the following letter from Mr. Jacob Hauck, Bloomfield, N. J., whose range of glass comprising eighteen thousand sq. ft. (18,000) I heated last season, and who is erecting at present another range of ten thousand sq. ft. (10,000) for which I have received the heating contract.

MR. WM. H. LUTTON:

Dear Sir:—I am well pleased with the heating system that you installed in my new greenhouses last summer, and I shall take great pleasure in recommending you to anyone who should care to inspect the work that you erected. Yours truly,

JACOB HAUCK.

The above letter should interest you if you are anxious to receive the best results.

WM. H. LUTTON,

West Side Ave. Station,

JERSEY CITY, N. J.

GREENHOUSES BUILDING AND PROJECTED.

Bangor, Me.—B. T. Genther, one house.

Burlington, Mass.—Chas. H. Walker, one house.

Roslyn, Pa.—Edward Towill, one house, 24x150.

New Haven, Conn.—C. S. Mellen, conservatory.

New Castle, Ind.—Wm. Dittmann, range of houses.

Cortland, N. Y.—Hike & Jones, range of houses.

Rutherford, N. Y.—Julius Roehe's Co., six houses.

Montrose, Mass.—N. F. McCarthy, one house, 54x300.

New Orleans, La.—O. Arten, range of houses, 20x200 each.

W. H. Siebrecht, Astoria, N. Y.—Rebuilding range of houses.

Knoxville, Tenn.—C. W. Crouch & Son, six houses, each 22x200.

Fort Worth, Tex.—McCart & Anderson, range of houses, 20x100 each.

Pittsburg, Pa.—Albert Lorch, two houses; Chas. Hoffman, two houses.

Toledo, O.—Searles Bros., range of houses; Crane Bros., range of houses.

El Paso, Ill.—El Paso Carnation Co., three houses, each 30x100, one house, 20x100.

OBITUARY.

James Daly, one of the oldest florists in Brooklyn, N. Y., died on Sunday, June 3, at his home, 312 Prospect Park West, in his seventy-sixth year. He leaves a widow, four sons and three daughters.

Consul V. L. Duhaime, of Saltillo, reports that there is not a fruit-tree nursery in all Mexico, and suggests to American nurserymen of push and energy that they could succeed in that Republic. The consul says that fruit of the highest grade can be raised, all altitudes being available from the sea level to 5,337 feet. Apples and pears thrive in the elevated regions, while there are excellent opportunities for raising peaches, grapes, and plums. The consumption of fruit in the Mexican cities is large, much of it coming from the United States.

LIST OF PATENTS.

Issued June 1.

821,855. Fruit-Picker. Amos E. Burwell, Butler, Pa.

821,987. Lawn-Mower. William H. Coldwell, Newburgh, N. Y.

Issued June 5, 1906.

822,752. Ground-Roller. Francis B. Moore, Metamora, Ill.

822,764. Pruning Implement. John W. Payne, Elba, Va.

822,839. Process for Facilitating the Removal of Roots of Stumps. Mason A. Fry, Seattle, Wash.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR SALE

Will sell at a bargain, what is known as the **Crawford Greenhouses**, 22,000 feet of glass, in good condition and well stocked. Part cash and part on mortgage, if desired.

CRAWFORD & GREAVES, Montello, Mass.

SALE BY AUCTION

June 30th, five greenhouses, dwelling, 25 acres land, crops, tools, etc., in lots to suit purchasers. **Riverside Greenhouses, Gardner, Mass.**

SALESMAN WANTED—To introduce a line of irrigating and sprinkling outfits for greenhouses and outdoor use; a proven success. **Bennett Bros. Co., Lowell, Mass.**

WANTED—An experienced shipping clerk, acquainted with the bulb business and capable of making trade for the house. Wages \$25 a week to the right party. Address **B. B., care HORTICULTURE.**

WANTED—A travelling man to represent a large importing house. Only those with a thorough knowledge of the whole sale seed, bulb and plant trade need apply. Address **R. D., care HORTICULTURE.**

WANTED—Position by a competent gardener, capable of taking charge of a first-class private place. European and American experience in commercial gardening, public parks, and nurseries. Address, **T., care HORTICULTURE, Boston.**

FOR SALE—Five greenhouses containing 5000 feet of glass. Hot water heat. Town water. One acre of land. 10 minutes walk from depot. 1 minute from electric. Near churches, stores and schools. For particulars write,

A. F. BELCHER, Foxboro, Mass.

ALL HEART



SUN DRIED
CYPRESS

**GREENHOUSE
MATERIAL**

IS THE BEST

WE HAVE LOTS OF IT
SEND FOR SKETCHES
ESTIMATES AND FREE

CATALOGUE
VENTILATING APPARATUS
HOT-BED SASH

FITTINGS ETC.

FOLEY MFG. CO.

471 W. 22ND ST.
CHICAGO

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.
FOLEY MANUFACTURING CO.,
471 W. 22d Street, Chicago

WANTED QUICK TO GET OUT OF BUSINESS.

Getting old and health poor. 10 acres of land, 10 Greenhouses, about 40,000 square feet of Glass. Horses, Wagons, Tools, all in working order.

Wholesale and Retail Trade of
40 Years' Standing.

10 minutes' drive to depots and post-office.

Would sell the whole or half interest, or put it into a stock company. To anyone making business this is a good chance. Come to the place and see for yourself.

T. L. Lowden & Sons, Pittsfield, Mass.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Here Is Something That Concerns Your Pocket Book.

Dorchester, Mass., May 17, 1906.
Messrs. Holly-Castle Co.

Dear Sirs:—In reply to your inquiry regarding the amount of coal consumed by my heating system I would say that I have used 56 tons costing \$337.50 during the past winter.

I used 1 ton of Furnace	@	\$5.75
6 " " " " " " " " " "	@	4.00
7 " " " " " " " " " "	@	4.75
41 " " " " " " " " " "	@	6.50
1 " " " " " " " " " "	@	8.00

Mr. Dickerman puts the consumption last year at 75 tons of egg size. I haven't been able to get the exact figures as yet, but will endeavor to do so if possible.

It would seem conclusive from the above figures that there has been a saving over last winter of 19 tons of coal, which, at \$6.50 per ton, makes \$123.50 saved. It has cost me \$26.00 for power to run circulator, which, deducted from \$123.50, leaves \$97.50 as the total

saving on coal. Add to this the wages of a night fireman (necessary on previous winters but dispensed with during last winter) for four months at \$40 per month and you have a total saving of \$257.50.

You are at liberty to use this letter in any manner you desire as I have the bills and statements to back it up.

Very truly yours,
THOMAS R. MATTHEWS.

If you find anything in the above letter that interests you, write to us.

HOLLY-CASTLE CO., 170 Summer St., Rooms 419-20 Boston.

POT MAKERS FOR 140 YEARS A. H. HEWES & Co. Inc. CAMBRIDGE, MASS. KIND OF FLORIST WARE

MASTICA

(PATENTED)

For Glazing Greenhouses

Manufactured only by

F. O. PIERCE COMPANY
170 Fulton Street, New York

Agencies in all the Principal Cities
of the United States and Canada.

WRITE FOR CIRCULAR

PATENTS

Trademarks and
Copyrights

Send your business direct to Washington.
Saves time and insure better service.
Personal attention guaranteed.
Twenty-five years' active practice.
SPECIALTY: "Working on the Failures
of Others"

SIGGERS & SIGGERS

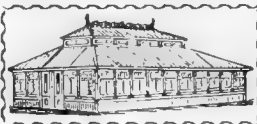
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in. rate	\$4.88	120 7 in. pots in. rate	\$4.20
1500 2 1/2 " " " "	5.25	60 8 " " " " "	3.00
1500 3 " " " " "	6.00	HAND MADE	
100 " " " " " "	5.00	48 9 in. pots in. rate	\$3.60
8 " " " " " "	5.30	48 10 " " " " "	4.80
500 4 " " " " "	4.50	24 11 " " " " "	3.60
300 5 " " " " "	4.25	24 12 " " " " "	4.80
144 6 " " " " "	16	12 14 " " " " "	4.80
		6 16 " " " " "	4.50

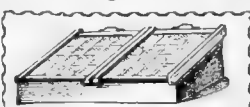
Fire pans, same price as pots. Send for list of
flowers for cut flowers, Hanging plants, Lawn
flowers, etc. Ten percent. off for cash with order. Address
Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Bolker & Sons, Agts., 31 Barclay St., N. Y. City.



GREENHOUSE REASONS.



Reasons are plentiful why **Premiers** are the best built. They are portable as well as durable—artistic as well as modern. You can see its superior outside points by its appearance;—the inside points of supremacy are proved by long wear—honest wear. They're all the same, from smallest to largest;—none of them ashamed to show their ins as well as their outs. We have had experience in greenhouse construction—that's the reason. Send for illustrated booklet No. 45.



CHAS. H. MANLEY,
Premier Mfg. Works,
ST. JOHNS, MICH.



STANDARD PLATE GLASS CO.

Manufacturers, Importers and Jobbers
AMERICAN AND FRENCH GREENHOUSE GLASS

26-30 Sudbury Street
61-63 Portland Street

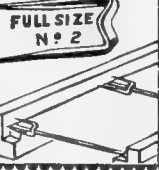
BOSTON, MASS.

Holds Glass Firmly

See the Point

PEERLESS

Glazing Points are the best.
No rights or lefts. Box of
1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.



BY SLIPPING A PEERLESS GLASS REPAIR CLAMP

over a cracked glass you protect your stock,
save coal and glass. Do it now before the high
wind-play havoc with your roofs. \$1.00 will
repair 150 lights. Ask your supply man, or
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Wauwatosa, Wis.

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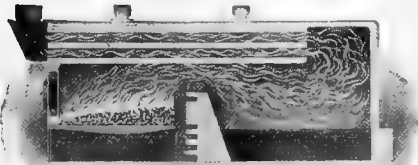
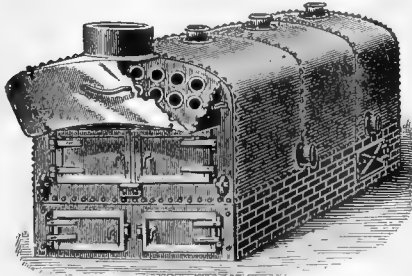
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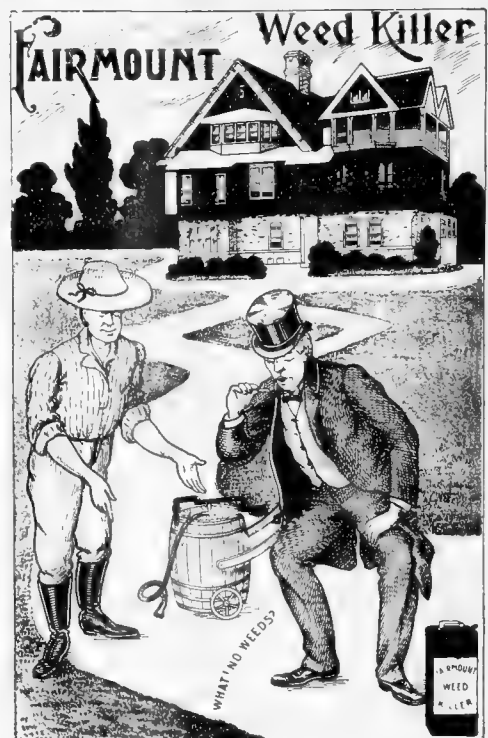
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HORTICULTURE

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JUNE 23, 1906

No. 25



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The Great Temple Show of the Royal Horticultural Society

One of the most successful of the many Temple shows held by the Royal Horticultural Society was that which took place in London on May 29, 30, 31. Glorious weather favored the occasion and the tents and the lawns were thronged with crowds of enthusiastic visitors. This early summer show, which is held in the gardens of the middle Temple, delightfully situated by the River Thames, is now quite an important function and attracts a large and distinguished assemblage. Three enormous tents are filled with a bewildering variety of exhibits of the very finest plants, flowers, and fruits, while groups of hardy shrubs and other plants are arranged on the lawns outside.

The largest of the three tents, the contents of which form a magnificent flower show in themselves, is given up almost entirely to hardy flowers. The second tent is filled chiefly with greenhouse and hothouse plants, while the third one contains the orchids and roses.

A detailed report would probably have little of interest for your readers, but I will endeavor to draw attention to some of the most remarkable exhibits and the new plants. The most coveted award is the handsome Veitchian Cup, value 50 guineas, presented to the exhibitor of the finest display in the whole show. It is given to no particular class of plants, but simply to that exhibit which in the opinion of the council is the most meritorious. On this occasion the Veitchian Cup was won by Sander & Sons, the famous orchid growers and importers of St. Albans, England, and Ghent, Belgium. Their exhibit was a magnificent exposition of some of the loveliest and rarest orchids of the day and for quality and for elegance of arrangement has perhaps never been excelled. One of the most remarkable plants in the group was a specimen of *Cattleya Skinneri* having 150 blooms. One of the finest new orchids was *Laelio-Cattleya Golden Glory* with canary yellow sepals and petals and pale crimson lip, a strikingly beautiful flower. The finest of the odontoglossums, of which many were to be seen in Sander's group, was crispum variety *Leonard Perfect*, a large flower blotched with light red upon a white ground color. M. Ch. Vuylsteke exhibited a collection of some of his wonderful varieties of spotted *Odontoglossum crispum*. Several of them received the award of merit.

The rare and comparatively new orchid, *Cymbidium rhodochilum*, was shown in the exhibit from William Bull & Sons. This is a handsome flower and peculiarly attractive on account of its unusual coloring. The sepals are green, the petals too are green spotted with black, a color combination that is most pleasing. A fact which still further enhances the beauty of this *cymbidium* is that it has a crimson lip.

The roses were perhaps admired more than any other exhibits. They filled the major portion of one tent and by reason of their grace, variety, and richness of coloring made most beautiful displays. Most of them

were similar in arrangement: they had a groundwork of dwarf bush roses in many varieties of tea, hybrid tea and hybrid perpetual and dwarf polyanthas. Arranged here and there among this groundwork of dwarf plants were standards and pillars of some of the loveliest free growing rambler varieties. The group from William Paul & Son was one of the finest. The large plants in pillar form of *Crimson Rambler*, *Lady Gay*, *Dorothy Perkins*, *Waltham Bride* were covered with their showy flowers and attracted much attention.

Most beautiful of all the new roses was *Hiawatha*, a single flowered variety. The flowers, which are about an inch across, are of a soft crimson or rich deep rose color; the centre of the blossom is almost white, although this, which adds to the beauty of the flower later, is hidden for the time being by the bunch of yellow stamens. These, too, add a distinct charm to the flower. The blossoms are produced most freely and the plants of *Hiawatha* were generally pronounced to be the most striking feature in the show. Evidently this rose is the result of a cross between a multiflora and a *Wichuraiana*: the influence of the latter seems to be most marked. The growth is a good deal similar to that of the other well known *Wichuraiana* forms, although the leaves are larger. This rose was shown by several exhibitors. It received an award of merit. *Kathleen*, another very charming single flowered rambler rose, also received a similar award. Its flowers are rich pink in color, a most pleasing shade.

The rose *Richmond*, which is apparently a favorite with American growers, and described here as a glorified *Liberty*, was well shown, and the new *David Harum* (hybrid tea) pink with beautifully formed reflexing petals was noticeable in the exhibit from Paul & Son.

An award of merit was given to *Rhododendron Marchioness of Tweeddale*, shown by John Waterer, Bagshot. This is a beautiful new variety, rich rose with a pale yellow blotch on the upper petal of each flower. The truss is well filled up and stands erect. This was the only new *rhododendron* to receive an award. John Waterer showed a magnificent lot of his famous *Pink Pearl rhododendron*.

Jackman & Sons set up a very fine lot of clematis in many good sorts. A new variety called *Lady Northcliffe*, a large flower of the *Jackmani* type, and nearly pure white, received an award of merit.

Some magnificent new double begonias were shown by Blackmore and Langdon, begonia specialists. Begonias *Alice*, buff with rose margin; Mrs. Blackmore, deep salmon-pink, and *Millicent*, clear pale salmon, obtained an award of merit and were much admired. *Vitis Henryana* is a beautiful new Virginian creeper with bronzy green leaves, silvery mid-rib and veins. It is a very attractive hardy climbing plant. It was found by Dr. Henry in China and introduced by Dr. Wilson for Messrs. James Veitch & Sons. It was exhibited at the Temple Show by Hobbies, and obtained an award of merit.

Harry H. Thomas

Show and Decorative Pelargoniums for Commercial Purposes

Every year as our pelargoniums come in flower we have numerous inquiries from private individuals as to where they can procure such varieties as are included in our collection and we have always to give the same answer, that so far as we know they are only to be found on a few private places. We do not intimate by this that there is no commercial firm which does handle this line of plants, but if grown we are certain they are not very extensively advertised; in fact, very few of the large seed establishments having a nursery and greenhouse department catalogue them at all, and if a few varieties are listed they are generally so poor and out-of-date that the public could hardly be expected to show any great interest in them.

How different the conditions are in Europe, especially in the British Isles, where every firm of any repute carries most of the new and standard varieties and in nearly every home will be found a pelargonium of some kind.

We are of the opinion that our florists have not given this subject their best attention so far, probably because they think the old slow method of growing them is the only way. Pelargoniums, like many other plants, will stand a little hustling and not be any worse of it; we think they rather enjoy it. The old method of growing them anywhere between the freezing point and 45 degrees is very good for large specimen plants, or if they are not required to bloom before the month of June, but the florist requires something that will bring quicker returns.

It has been our custom for a few years back to put in a batch of cuttings about the beginning of September, when our old plants are cut back, and, for lack of room in our cold greenhouse, we have grown them in the carnation house, which is kept at 52 degrees during the winter months, and the result has been a nice lot of plants in six-inch pots coming into bloom the latter part of March or the beginning of April, just at a time when we are getting weary of the usual routine of winter flowering plants. We get larger flowers at this season than later on, probably on account of the weather being cool, and the plants if put in colder quarters when coming in flower will last for months. This method, we think, ought to be a profitable one, even if only a limited number is grown to start with. If well advertised we are certain that private gardeners would purchase quite a number, say in 2 1-2-inch pots to grow on, if they could be procured from a local firm.

The cultural directions for pelargoniums are very simple, but it is the simple things we keep forgetting, and the few plants we have seen on commercial places bear evidence of this; they also seem to have most of the abuse bestowed on them. Our cuttings are inserted in sand the last week in August or the beginning of September, potted off into 2 1-2-inch pots as soon as ready, and when they are well started into growth the tops are pinched off. They are next shifted into 4-inch pots and when well established in this are pinched again, and if required to flower early this second and last pinching should not be done later than the middle of December. About the beginning of January they ought to be ready for six-inch pots, and for this potting we use three parts fibery loam to one part old cow manure well broken up and thoroughly mixed, the soil rendered quite firm in potting, otherwise the shoots will

lengthen more than is desirable. The plants should stand as near the glass as possible and must not be over-watered during the dull winter months. A little weak manure water may be given before the buds open, but we think that for florists they will stand in flower much longer if not fed at all.

There is so very little difference between the show and decorative varieties that we need make no distinction here. The show varieties have the most perfect flowers and are more extensively grown, the decorative being more compact in habit and coming earlier in flower. There are a great number of grand varieties, but a good many come very near to each other in color. The following are distinct and have proved satisfactory in every way:

Bridegroom, daybreak pink, maroon blotch on top, fimbriated petals. Bluebeard, top petals purplish-carmine, lower petals lilac pink, center white. H. M. Stanley, deep carmine, maroon blotch on upper petals. Lady Duff, rose pink, center white. Mabel, top petals dark velvet maroon, lower petals mottled with white. Madame Thibaut, white, marbled with light rose, fimbriated. Miss Henderson, lilac-pink, purplish-lilac blotches on top petals. Mary Malet, daybreak pink, orange-scarlet blotch on top petals. Mrs. Ashley, scarlet, maroon blotches. Mrs. Robert Sandiford, white. Nellie Hayes, white with purple tinge, purple blotch on top petals. Purity, white, delicate pink blotch on upper petals. Triomphe de St. Mande, deep crimson, maroon blotch on top petals.

James Stuart

Rose Mme. Norbert Levavasseur

Of the recent introductions among roses, this, the so-called Baby Rambler, caused considerable comment at the time it appeared. It is rarely heard of or seen in any quantity, though many thousands have been disseminated during the past two years. Adverse reports have reached us in the past regarding its shortcomings and, as often happens, one sometimes becomes prejudiced unduly without sufficient evidence or proper examination.

When this rose was new we secured two lots, one of small own-root stock, the others strong grafted plants in 6-inch pots. The behavior of both under glass was enough to cause vexation to the most pious, owing to the persistence of mildew and red spider; consequently both lots were planted out among other roses to take their chance.

Last fall the own-root plants were banked up with the H. P. varieties; the stronger grafted ones went unprotected with the Crimson Ramblers, with the result that the ones on own roots died while all the others lived, are clean, vigorous, and covered with buds, promising a great display shortly—proving that under certain conditions this new introduction is a very desirable one.

It is a sad mistake to call it the Baby Rambler; it seems to have no tendency to ramble, but on the contrary is distinctly a dwarf bedding rose and, as such will have a future if grafted stock is used. Roses are not usually a success when used as permanent occupants in the decorative way; their season is too short when in bloom, and after that, the place that knows them is too

often the spot to display insecticides and fungicides, owing to the number of ills the rose is heir to; but it is safe to predict that Mme. Norbert Levavasseur together with Gruss an Teplitz will be often seen in the future in the flower garden proper, this last named being of fine color and vigor, and a continuous bloomer until late in fall.

A good washing with Ivory soap used while warm, one bar to half a barrel of water, will rid the plants of all plant lice and the rose bugs do not like it. The value of this remedy lies also in its absolute cleanness; one can use it with impunity on piazzas or any other part of the dwelling without creating an uproar, as it cleanses everything it touches. Ivory soap is also a sure cure for rose mildew, but must first be dissolved in very hot water.

E. O. Orpet.

My Experience with Peony Lady Alexandra Duff

My first importation of this variety was in 1901. The whole lot of five plants did not bloom sufficiently the next year to determine definitely what they were; but the imperfect blooms led me to question them and I ordered five more plants to come in fall of 1902. When the first set bloomed they were clean Festiva Maxima. The second lot bloomed well in 1904, and at the June exhibition at the Massachusetts Horticultural Society I was awarded a first-class certificate for that variety. The same year, one week later, at the rose show of this same society, Messrs. T. C. Thurlow & Son showed another variety imported by them for this same variety. Now, this year, Mr. Wm. Whitman's gardener from Brookline, Mass., exhibited still another variety for Lady Duff.

This is the way the whole lots have turned out:

My first importation all turned out Festiva Maxima.

The second lot have all turned out Grandiflora Nivea—a most charming French-white beautiful peony.

The third lot, imported by Thurlow & Son, have turned out to be just the same as some which came to me in my very first importation under the name of Princess of Wales, and also another variety which came later named James Kelway. I have also had this same James Kelway under its proper name as we suppose from another American grower.

The fourth lot, which was shown by Mr. Sullivan, gardener to Wm. Whitman, was the old and choice Peony Duchess de Neumours (Catal.), a very fine variety.

There is no comment to make on this, only that the Lady is quite numerous and changeable. My firm belief is that there is no such variety. It is only a re-naming of old varieties and when the stock of one gets low, select another and so keep up the fraud.

E. J. Shaylor.

Wellesley Hills, Mass.

Agapanthus umbellatus

There are few plants comparable to this plant for effective landscape adornment in late summer or early fall; it is especially well adapted to give grace, life, and character to the much-in-vogue so-called "Italian style of gardening." Its effective blue flowers contrast finely with the gray or white masonry, and the gracefully arching dark-green foliage is equally efficacious. In order to thoroughly appreciate the decorative value of the plant, large specimens must be had in tubs or pots. As it increases rapidly under liberal treatment the attainment of fairly large plants requires a comparatively short period of years.

When the desired sizes are procured, it is best not to disturb them for many years thereafter, as they will flower much more profusely in cramped quarters. The fact must be ever present to the man in charge that they have arrived at the cramped-for-room stage, and therefore he must make amends by providing ample stimulants in the shape of commercial fertilizers. They are not particular as to brand, provided it has all the essential elements that plant life calls for. When equipped with their ample foliage in the growing season, the amount of water they require, stimulant and otherwise, is great. These plants are particularly charming associated with running water, and dotted here and there on the margin of ponds and lakes, as well as along driveways, piazzas, etc.; in short there is hardly a situation but what they will tend to embellish on a well-appointed estate. One of my pleasantest recollections of a visit to Lenox a few years ago was of seeing quite a number of fair-sized plants dotted along the terraces and grounds of Lenox's wealthy estates.

Considering that greenhouse room is not necessary to winter, these plants from year to year, it is strange that there are not more of them to be seen. All that is necessary to winter them all right is a good frost-proof pit of cellar, not too dry or too clammy. Of course it is unnecessary to say that watering is to be dispensed with while they are in their quarters, and should be gradually suspended in the fall ere they be taken in; the firmer the tissues of the plants the better they will withstand low temperatures.

There are a number of varieties, but common umbellatus, taking it all in all, is more satisfactory than any of the others. A. Mooreana, however, is a nice miniature variety, useful for table and house decoration on account of its low stature and free-flowering proclivities. It is nearly hardy, quite so in Europe, at least the most climatically favorable parts thereof. A. um. maximus is a fine variety, as far as size of umbels is concerned, but not so free as the subject of this note. A. um. albidus, white-flowered, is also somewhat shy in producing flower scapes. There is also a silvery variegated and a golden variegated, pretty only for their foliage.

H. D. Ingham

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

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WM. J. STEWART, Editor and Manager.

A national arboretum One of the best suggestions made at the Washington meeting of the American Association of Park Superintendents was that offered by Jackson Dawson and applauded by the members, recommending the establishment of a national arboretum at Washington. Not only would this greatly enhance the attractions of our already beautiful Capitol City but it would exert an immense influence in the horticultural advancement of the people of the entire country. Words cannot express what Boston's Arnold Arboretum has accomplished in this direction since its foundation. Its stately forest trees, its romantic scenery, its plantations of rich flowering shrubs, its interesting botanical groups affording the best of opportunity for study and comparison, are but the surface indications of what this unique feature of Boston's great park system is doing for the people. It is already the Mecca of the lover of Nature's best products and should serve as a stimulus not only to Washington but to many other sections of our country to establish similar institutions in their midst.

Keeping peony flowers The peony society has a problem to solve similar to that which has vexed the carnation society for many years, viz.: the cause of the wilting of flowers on the exhibition table. Horticultural Hall, Boston, has proved to be an admirable place for keeping flowers in good condition—much better in this respect than most exhibition halls—yet many of the peony exhibits last week made a sorry sight on the second day. Flowers shipped from a distance were the greatest sufferers in this respect but the trouble was by no means confined to these. One observant peony grower states it as his belief that the peony is irreparably injured by being kept any length of time out of water after cutting and that he makes a practice of having a tub of water handy in which he plunges blooms one after the other as they are cut, instead of carrying them about in the hand or a basket until a load has been gathered as is a common custom. Wide necked vases with an abundance of water frequently renewed and the avoidance of any crowding of the stems would

doubtless go far towards keeping exhibition blooms in good shape. It is to be hoped that the trouble will not prove so obstinate as in the case of the carnation—or as to discourage the peony enthusiasts from keeping up these exhibitions of this charming and useful flower and securing for it the widespread popularity it merits.

Gardening art Modern travelling appliances and comforts have given a tremendous impetus to the suburban home idea and thus rendered an inestimable service to horticulture and

to those who follow horticulture as a profession. We have already had occasion to call attention to the great opportunity thus thrown open to the florist and gardener to elevate and broaden his line of work and take possession zealously of this fertile field which holds out so much of promise. The call for hardy garden material, large as it has become, is bound to increase immeasurably. The public are bound, sooner or later, to realize the shallow and misleading nature of much of the descriptive and cultural stuff presented to them by a certain class of hysterical amateurish writers, much in evidence of late, and will learn to look to the straight horticultural profession for advice and assistance in arranging and caring for their gardens and the contents thereof. This big field exists in every community on this continent and, while it may have but little attraction for those engaged in large landscape operations, yet its problems will be found complex enough to call for a high quality of artistic ability. "Scope for the play of sunshine and shadow, haze and mist," may not enter into these minor operations, individually, but the same underlying principles of good taste, balance, and picture creating will need to be mastered and for those who undertake it in the proper spirit adequate recompense will be promptly forthcoming.

Wherein we lack If it be true that, as has been said, cities usually reflect in their external aspects the tastes, customs and intellectual desires of their inhabitants, then it will

be conceded that the people of many of our cities are sadly in need of education in taste and refinement. Rudyard Kipling has publicly called attention to the conspicuous absence of gardens—gardens in the English sense of the word—in all sections of this country. We think the censure is merited. The culture of flowers is woefully neglected by the masses and the absence of the bits of verdure and bright color which, we are told, adorn the homes of comfort and soften the squalor of back yards and brighten the window ledges of the tenement districts abroad, is a most regrettable fact. Flowerless windows suggest that something is lacking within. Again, while it is true that anything whatever in the way of verdure is far better than nothing at all, it must be admitted that evidences of discriminating taste in arrangement are none too plenty in such gardens as we do see. Our public grounds, which might and should serve as object lessons for the people, are in many instances excellent examples of how not to do it, and the average window box with its inappropriate material and incongruous colors emphasizes the fact that we are far from the ideal in our perceptions as regards these things. The park superintendent, the florist, and the gardener are in a position to exercise a powerful influence in shaping and directing the public taste but they must see to it that the inspiration is on the right lines.

CONCERNING LANDSCAPE ART.

The editorial in your issue of June 2, commenting on that in the National Nurseryman criticising the action of the Boston Gardeners' and Florists' Club, meets my hearty approbation and I think the writer of that criticism shows more than the ordinary supply of prejudice. To be a successful private gardener one must have a working knowledge of landscape work. A certain visitor once remarked, "Catch a Scotchman when he is young and there can be something made out of him." The same applies to young gardeners; get the idea instilled into them by competent parties, and the knowledge will never leave them. Landscape gardening is an art which very few can master thoroughly. Some men can lay out a rough lawn, throw a few shrubs in one corner, stick a tree in here and there, and there you are; they have cards printed styling themselves Landscape Gardeners.

A ready-made landscape gardener is against nature. The ideal landscape of an estate should be made by the head gardener; he being there all the time can observe and study better and bring a piece of landscape work closer to nature. The ideal landscape is the work of years. I have just read the report of the Boston committee published in HORTICULTURE over Mr. Pettigrew's name. It certainly embodies what a young gardener should aspire to.

Not long ago one of your contemporaries commented in rather a humorous vein upon friend Hatfield's visit to Scotland, noting that he didn't see there anything as good as was in Wellesley. Hatfield started off wrong. If he had inquired for some of the "Grunts of the Greybaird," after having partaken of that mellow stimulant "goodness knows what he might have seen." Conifers would have seemed like mountains, friend Hatfield would have given us a better account of his trip to the Land o' Cakes, and would have been loud in his praises of the people's hospitality. Next time he goes there let him try the above incentive and he will return home vowing he never before saw anything like it.

R. T. MCGORUM.

PERSONAL.

Miss Lulu, daughter of J. J. Beneke, of St. Louis, was married on June 14 to Rudolph Bremer.

Mr. and Mrs. John H. Taylor of Bayside, N. Y., sailed on Saturday, June 16, for Europe.

T. Mellstrom, American agent for Sander & Sons, of St. Albans and Bruges, sails for Europe on June 28 on the Deutschland.

Visitors in Boston: Miss Rennison, Sioux City, Ia.; Mr. and Mrs. W. Atlee Burpee and Mr. and Mrs. Alex. Scott, Philadelphia; Mr. and Mrs. Hugh Dickson, Newtonards, Ireland; J. W. Rodgers, Cincinnati, O.; S. S. Skidel-sky, Philadelphia; James MacPherson, Trenton, N. J.; John Urquhart, Newport, R. I.; Wm. Burton, Bar Harbor, Me.

PLANT NOTES.

Large quantities of cross fertilized kniphofias are being grown at the Botanic Garden, Washington, for general distribution next year.

Lady Larpent's plumbago (*Cerato-stigma plumbaginoides*) is one of the most beautiful hardy plants particularly adapted for rock-work planting.

Of the Japanese maples, *Acer dissecta* and *atropurpurea* can be relied upon to come true from seed.

Abelia rupestris fairly hardy as far north as New York city is a charming plant for half shaded dells. Commencing now to expand its sweet-scented little pink tubular flowers it will continue in bloom until late fall. In northern latitudes it will need the protection of a few evergreen boughs in winter.

Hydrangea acuminata is a strikingly beautiful hardy shrub of robust growth, with large foliage and lilac-tinted flower-heads. It is in bloom now and is worthy of a place in every large garden.

Bignonia Hunteri is a new species found wild in Virginia by a Mr. Hunter. The flowers are yellow. We hope to figure it in our columns at a later date.

Ligustrum Quehova is a grand new shrub. The foliage is narrow and pointed and the flower racemes are very long and branching. It blooms late in June and again several times during the rest of the season.

That popular basket plant, *Ophiopogon Juburan variegatus* deserves a more general use as a half-hardy edging for large flower beds. Few variegated plants stand the vicissitudes of garden existence as well as this does.

Peter Bisset pronounces the double-flowered white *Nelumbium Osoras* now being heralded as a novelty to be identical with the Japanese *N. Shieoman* sent out some years ago.

BUSINESS CHANGES.

On and after July 1st, 1906, the business formerly conducted by Mr. Aug. Rhotert, at No. 26 Barclay street, New York city, will be continued by Mr. H. Frank Darrow, who has been associated in business with the late Mr. Rhotert for nineteen years.

"Pleased With the Results."

Editor HORTICULTURE.

Dear Sir:—I am very much pleased with the results obtained from my "ad" in HORTICULTURE. From one insertion I obtained orders for over 5,000 geraniums and over \$100 worth of Boston ferns.

Yours truly,
H. N. EATON.

"Sold Out."

Would like you to leave the Twice Transplanted Cyclamen out of ad., as I am sold out of them.

C. WINTERICH.
Ohio.

"Take All We Have."

We have just received an order from your ad. for over 9000 plants; that will take all the seedlings we have and small pots. Very truly,

A. RELYEA & SON.
New York.

OBITUARY.

Edwin B. Hay.

The many florists throughout the country who from time to time have been brought in contact with Col. Edwin B. Hay of Washington will be grieved to learn of his sudden demise on the 12th inst. The deceased was by profession a lawyer and enjoyed a national reputation as a lecturer and after-dinner speaker. He was a great lover of flowers and was rarely seen without one in his buttonhole. He was well known to the local trade and took an active interest in all things pertaining to floriculture. At the shooting tournament of the last S. A. F. convention he presented the prizes to the successful contestants in one of his characteristic speeches, which was filled with beauty and sentiment.

A man in whom the highest gentlemanly instincts were inbred, he greeted the humblest toiler with the same graciousness which marked his manner with the highest officials and statesmen with whom he was daily thrown in contact. Thoughtful and considerate, sympathetic and kind, a man of ready wit, yet no one could ever say that the brightness of "Ned Hay" was caused to shine by the dimming of some other star, for he believed in the brotherhood of man and saw and recognized the latent "talents" and good in every man.

Frank C. Moninger.

On Saturday, June 16th, at his home 166 Cleveland Ave., Chicago, one of the first men to manufacture greenhouse construction material in the west, Frank C. Moninger, passed away at the age of 85. He was the father of Lena and Lambert Moninger, and the late John C. Moninger.

Mr. Moninger was born in Germany in 1821 and came to this country when a boy, settling in his early youth in Chicago. He was identified from the start with the interests of the truck gardeners and florists located north of the city in what is now High Ridge, Rogers Park, Bowmanville and Edgewater, manufacturing as far back as 1849-1854, sash for greenhouse construction. Geo. W. Miller and George Wittbold were two of the first customers for greenhouse sash, and other florists in the vicinity of Chicago built with his material shortly afterwards.

Mr. Moninger early recognized the fact that the increasing demand for better material and lighter construction would mean the specializing of the work, with which thought in mind he formed a partnership with the late John L. Diez, making at that time in 1869 the first sash bars for greenhouses manufactured in Chicago—these sash bars were furnished Geo. W. Miller. The business flourished under his guidance and when finally succeeded by the son, John C. Moninger, nearly every florist in or around Chicago had been a customer for his material. The present firm of John C. Moninger Co. is the result of the start made by Frank C. Moninger and the manufacture of material has now been carried to a state of perfection and the business developed to an extent of which the founder of the firm never anticipated or dreamt.

NEWS OF THE CLUBS AND SOCIETIES.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The June meeting of this busy organization was held under the most pleasurable conditions. In the afternoon a delightful trip to two of Brookline's most elaborate and renowned gardens—in the evening a splendid session at Horticultural Hall with over one hundred in attendance all being in that merry mood consequent upon a well-spent and instructive outing.

Eighty-five of whom fifteen were ladies participated in the Brookline visit. At the estate of Mrs. E. N. Brandegee presided over by David Weir, the first place visited, and at the Lars Anderson estate where Duncan Finlayson holds forth, the most profuse hospitality was shown the visitors; private conveyances met them at the cars and refreshments were served; the magnificent Italian gardens were thrown open for their inspection and every facility for enjoyment was provided.

A collation of strawberries and ice cream was served previous to the opening of the evening session at the Hall. The proceedings were mostly informal, no regular program having been announced. A communication from the American Peony Society acknowledging the club's courtesies was received. Votes of thanks were extended to the generous hosts of the afternoon. An invitation to spend an afternoon with Wm. Sim, ladies to be included, was accepted unanimously. It was decided to hold the annual picnic at Caledonian Grove in West Roxbury in latter part of July. W. H. Elliott presented a request from the executive board of the S. A. F. that the club select one of its members to present a paper at Dayton on the "Ideal Gardener and His Work," and this duty was assigned to the executive committee. W. J. Stewart asked for a substantial attendance from Boston to the Dayton meeting. An invitation received from the North Shore Horticultural Society to attend their rose show June 27 and 28 was read. Visitors present from a distance were C. W. Ward, Queens, N. Y., J. W. Rogers, supt. of parks, Cincinnati, O., and S. S. Skidelsky of Philadelphia. Each of these gentlemen responded to the call of the chair and said a few appreciative words.

On the exhibition table there were several interesting things. Alfred Portsch showed a new heliotrope Frau Ledele, a plant 4 months old bearing enormous foliage and a flower truss ten inches in diameter; also Impatiens Sultani X Holstii, an excellent pot plant, more compact and floriferous than the parents. The heliotrope received an award of merit and the impatiens, honorable mention. Asparagus plumosus var. Crawshawii from James Crawshaw received a report of merit. A similar award was given to Chas. Sander for rose W. C. Egan, a double-flowered pink hardy garden variety raised by Jackson Dawson, a cross between Wichuriana and Souv de Wootton. Eremurus from Mt. Desert Nurseries received a report of superior merit. Blue Hill Nurseries were accorded honorable mention for Acer

negunda Odessianum and for peony Jenny Lind. The question box being opened, disclosed some very puzzling inquiries. Among them were, How to get rid of cut worms, Where, if anywhere, have the large varieties of narcissuses of the Emperor type become naturalized in this country, and Where can peony supports be procured? Various remedies for the cut worm were recommended, from giving him the axe to sterilizing the soil, narcissi were said to be well-naturalized in one place on Cape Cod, and Igoo Bros., Brooklyn, N. Y., were recommended as the right parties to supply peony supports.

AMERICAN ROSE SOCIETY.

The Executive Committee of the American Rose Society met in New York City on Thursday, June 14. President Alexander Montgomery being unable to be present, vice-president Robert Simpson occupied the chair. The others present were treasurer Harry O. May, secretary William J. Stewart, Messrs. F. R. Pierson, A. Farenwald, H. A. Siebrecht, W. A. Manda and Peter Bisset.

The question of the location for the next meeting and exhibition of the society, which has been left to the committee to decide was discussed at much length. An official invitation from the Washington Florists' Club was read by the secretary and the eligibility of several other cities was discussed informally, the result being an unanimous vote in favor of Washington, D. C. Wednesday, Thursday and Friday, March 13, 14, 15, 1907, were selected as the dates for the annual meeting and exhibition.

The president-elect, Robert Simpson, was authorized to appoint a committee with power to prepare a schedule and the exhibition rules were revised so that all exhibitors not members of the Society shall pay an entrance fee of three dollars, same to be applied as membership initiation fee.

Mr. Bisset, representing the Washington Florists' Club, as its president, informed the committee that it is the intention of that organization to give a general horticultural exhibition in connection with the American Rose Society's show. Arrangements were then made, subject to ratification by the Washington Florists' Club, for a joint schedule and joint participation in the net profits, if any, after the expenses of the exhibition had been paid.

WM. J. STEWART, Secretary.

LENOX HORTICULTURAL SOCIETY

The regular meeting of the Lenox Horticultural Society was held June 16, President S. Carlquist in the chair. Wm. Henry, gardener to Grenville Winthrop, was awarded a diploma for a grand display of peonies. H. Schmieske brought up, on behalf of the Gardeners' Chronicle of America, the matter of building a home for aged gardeners, which was thoroughly discussed, but nothing definite arrived at, as detail seemed to be lacking. Everything promises well for a good show on the 26th.

GEO. FOULSHAM, Secy.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual peony show, in connection with the exhibition of the American Peony Society, held on June 15 and 16, filled the large hall, mainly with peonies, and partially filled the smaller halls. There were numerous exhibits, large and small, and the number of varieties included was very large. As a rule the blooms were badly up to standard, although some individual blooms and groups of blooms were very fine. In many instances the flowers wilted badly, those coming from a distance suffering most in this respect, so that on the second day much of the show was seen at a disadvantage. Nothing sensational or strikingly novel was noted among the varieties, old and new. Marguerite Gerard, shown by Mr. Shaylor, was again, as last year, the most generally admired variety in the hall. The single and Japanese varieties attracted considerable attention, being shown in greater number than heretofore, but on the second day many of the singles shed their petals.

Outside of the peonies there was much to be seen. A tank of handsome aquatics from Mrs. Oliver Ames, a table of gloxinias, profusely flowered, from Mrs. J. L. Gardner, a remarkable display of great flower spikes of eremurus in several varieties from Mt. Desert Nurseries, gladiolus cardinalis in three handsome varieties from W. W. Rawson, an extensive display of hardy herbaceous flowers elaborately labeled and described from the Blue Hill Nursery, and a group of *Miltonia vexillaria* of rare beauty from Langwater Gardens, W. N. Craig, gardener—these were among the most noticeable exhibits.

The Kelway silver gilt medal was won by Wm. Whitman, and the bronze by George Hollis for collection of eighteen named varieties of peonies. Other prizes were awarded respectfully as follows: Thirty or more varieties, Wm. Whitman, H. A. Stevens Co., James McKissock, George Hollis, T. C. Thurlow & Co.; twelve double, Wm. Whitman; specimen bloom, Dr. C. G. Weld, T. C. Thurlow & Co.; twelve single, T. C. Thurlow, Wm. Whitman; Japanese single, Geo. Hollis; vase of blooms on long stems, Dr. C. G. Weld, E. L. Lewis, E. B. Wilder; six double white, A. H. Fewkes, T. C. Thurlow, H. A. Stevens Co.; six rose pinks, A. H. Fewkes, H. A. Stevens Co.; red, T. C. Thurlow & Co., H. A. Stevens Co.; twenty-five white, H. A. Stevens Co.; pink or rose, T. C. Thurlow & Co.; red, Wm. Whitman, H. A. Stevens Co. A silver medal was awarded to Wm. Miller of Mt. Desert Nurseries for eremurus. Honorable mention was given to W. W. Rawson for gladiolus Cardinalis Ackermanni, and to F. J. Rea for *Anchusa Italica* var. Dropmore. W. N. Craig got a cultural certificate for miltonias.

AMERICAN PEONY SOCIETY.

The annual meeting of the American Peony Society was held in Horticultural Hall, Boston, on Friday p. m., June 15. Among the members present

were President C. W. Ward, Queens, N. Y., Secretary A. H. Fewkes, West Newton, Mass., C. S. Harrison, York, Neb., G. H. Peterson, Fair Lawn, N. J., E. B. Hedges and H. J. Mullen, Westfield, Mass., E. A. Reaves, Cleveland, O., B. H. Farr, Reading, Pa., and J. Eliot Coit, Ithaca, N. Y., and a number of local members.

The meeting opened with an address by President Ward. Then followed the annual reports of secretary and treasurer. The secretary reported the present membership as thirty-seven active and two honorary members. He said that, since the last meeting, he had been in correspondence with Prof. Whetzel of Ithaca in regard to the fungus which attacks the peony stem and leaf and that a report of the result of the investigation will be made later. Referring to the exhibition made one year ago in connection with the meeting at Chicago, the secretary said that this show proved the practicability of exhibiting flowers which have been shipped from a distance and placed in cold storage. "While they are in no way equal to freshly cut specimens it makes it possible to preserve early varieties for late shows, thereby making the exhibition more interesting. As nearly every flower exhibited was named it made a very instructive exhibition for the identification of varieties and in many cases illustrated the comparison existing in the nomenclature of the flower. A feature which was entirely lacking was the display of flowers grown especially for exhibition purposes. While this is perhaps a matter which usually concerns the amateur it is one which should receive the attention of the commercial grower as well. He would find himself amply repaid by making a plantation of a few specimen plants of each of his varieties giving them extra attention in the way of fertilization, water, and staking."

The report of the treasurer showed receipts of \$491.67 and expenditures of \$135.93, leaving a balance on hand of \$355.74. An invitation was received from the Jamestown Exposition officials and the Pomological and Horticultural Society of Norfolk, Va., to hold the next meeting there; also a letter from Prof. Bailey of Cornell inviting the society to meet at Ithaca, N. Y., and the latter was accepted. All the old officers were unanimously reelected for the ensuing year and J. F. Rosenfield of West Point, Neb., was elected a new director.

The exhibition was held in connection with the annual peony show of the Massachusetts Horticultural Society. Messrs Jas. Wheeler, W. N. Craig and Wm. Nicholson served as judges. The awards were as follows: Collection of varieties, one flower of each, first, George Hollis, second, T. C. Thurlow. Twelve varieties six flowers of each, first, C. W. Hoitt, second, T. C. Thurlow. Fifty blooms white, first, T. C. Thurlow, second, C. W. Hoitt. Fifty blooms pink, second T. C. Thurlow. Fifty blooms crimson, first, E. A. Reaves, second, T. C. Thurlow. In three classes for private growers only James McKissock won first prize.

While the judges were preparing their report a general discussion was carried on by Messrs. Ward, Harrison, Coit, Reaves and others on various topics. Protecting plants with cheese

cloth or similar shelter while the buds are developing was advocated for some varieties which open their flowers imperfectly. Mr. Harrison urged the preparation of a peony manual on the same plan as one recently published by him but on a larger scale. He thought that the western and northwestern agricultural and horticultural journals might be prevailed upon to publish special peony numbers and in other ways help to keep up peony agitation, it being a fact that the paradise of the peony is the far north where the cool air and freedom from hot sun make an ideal climate for it. Mr. Coit said that the rotting down of stems is due to the brown mould common to rich garden soils and is only a temporary local infection. Some varieties are more susceptible to it than others. The practice of hilling up around the stems of peonies as is done by some nurserymen for the purpose of getting buds for propagating purposes was condemned by several speakers, the plants thus propagated showing much weakness and failing to bloom for many years. The old-fashioned division of roots—once in two years—was approved as the best method of propagation. In cutting flowers it was advised that at least two leaf stalks be left on the plant.

It is expected that the new Horticultural Hall at Cornell will be finished in time for the 1907 meeting.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The regular monthly meeting of this society was held on the evening of Wednesday, June 13th. The meeting was well attended, with President Harrison in the chair. The floral exhibits this month were confined chiefly to roses, of which some grand blooms were staged. The prize for twelve varieties of out-door grown roses was awarded to H. F. Meyers. In the scale of points' class. A. MacKenzie scored 98 with a vase of delphiniums, collection of strawberries and dish of peaches; S. J. Trepass 96 2-3 for vases of carnations, Canterbury bells and roses; H. Meyers 93 1-3 for roses; S. Harrison 83 2-3 for roses; P. Ewen 83 for lettuce and C. Lenker 78 for peonies and roses.

C. Bertenzel made some interesting and practical remarks on growing American beauty roses, which are to be followed at the next meeting by a more exhaustive paper on the same.

A box of cigars for sweet peas in three varieties, twenty-five of each, will be competed for at the next meeting.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Henry C. Fruck, Grosse Pointe Farms, Mich., submits for registration the following named ferns:

Nephrolepis Fruckii.—Parentage supposed to be *N. Wittboldii*; frond light green, thick, glossy, pinnae long and wavy; plant compact and of medium height. Three years old and so far has shown no sign of spores.

Nephrolepis Berryii.—Has all the characteristics of *Fruckii* with the exception of its dark green, somewhat narrower fronds and the runners being rather finer.

WM. J. STEWART, Sec'y.

SOCIETY FOR HORTICULTURAL SCIENCE.

The fourth annual meeting will be held in Morrill Hall, Cornell University, Ithaca, N. Y., June 27 and 28, in connection with the meeting of the American Association for the Advancement of Science.

Papers will be given as follows: "The Field for Experiment in Horticulture, President L. H. Bailey, Cornell University; "The Relation of Winter Apples to Hardiness of Tree, W. T. Macoun, Ottawa Experiment Station; "The Use of Ether in the Forcing of Plants," William Stuart, Vermont Experiment Station; "Geotropism of the Vine in Its Relation to Congenial Stocks for Vinifera Varieties," E. C. Green, Texas Experiment Station; "The Use of Colored Cloth in Shading Plants," W. R. Lazenby, Ohio University; "Pollination Methods," S. W. Fletcher, Michigan Agricultural College; "Inter-pollination of Fruits," V. H. Davis, Ohio University; "Some Notes on Pollination," N. O. Booth, New York Experiment Station; "Does Experience Show a Real Advantage from Double-Working Apples on Vigorous Stock?" F. W. Card, Rhode Island Experiment Station; "The Importance of Selection in Plant Breeding," Earle J. Owen, New Jersey Experiment Station; "Influence of Artificial Light on Plant Growth," John Craig, Cornell University; "What Is to Be the Future Application of the Term Horticulture?" L. C. Corbett, U. S. Department of Agriculture; "Dwarf Apple Orchards in the United States," Chas. D. Wilson, Cornell University; "Apple Rots in Commercial Cold Storage," H. J. Eustace, New York Experiment Station.

The following are the officers and committees of the Society for Horticultural Science for 1906: President, L. H. Bailey; vice-presidents, G. B. Brackett, T. V. Munson, E. J. Wickson; secretary-treasurer, V. A. Clark; assistant secretary, U. P. Hedrick; executive committee, L. H. Bailey, president, ex-officio; W. M. Munson, W. R. Lazenby, chairman; W. L. Howard, John Craig; programme committee, C. P. Close, chairman; B. D. Halsted, R. A. Emerson, W. A. Taylor, W. Stuart, V. A. Clark, secretary, ex-officio; committee on nominations, L. C. Corbett, F. W. Rane, N. E. Hansen, W. W. Tracy, S. A. Beach; committee to consider the matter of the Society's publishing a periodical, L. H. Bailey, V. A. Clark, C. B. Smith.

MORRIS COUNTY GARDENERS' AND FLORISTS' SOCIETY.

The Morris Co. (N. J.) Gardeners' and Florists' Society, held its regular monthly meeting on June 13th. President John Heeremans read a paper on Vegetables for Exhibition. It was fully appreciated, the speaker receiving a rising vote of thanks. Mr. Heeremans' remarks were timely, and the fact that he is one of our prominent exhibitors added weight to his words. Thirty-four members besides the officers were present. Secretary was ordered to write a letter of protest on behalf of the society to the U. S. Express Co., against their exorbitant rates on flowers. Proofs of the flower show schedule were on hand; \$150 in cash prizes are offered. Several changes are made and the prospects are the best we ever had for

a fine show. It will be held in Madison, Nov. 1st and 2nd next. A. Her-
rington exhibited six vases of the
newer sweet peas in six varieties and
a large batch of Paeonia Lemoine, an
excellent late variety—the only ex-
hibit we had. He got the society's
cultural certificate. Treasurer Wm.
Charlton who is ill at home, is to be
visited by a special committee of
sympathizing brothers.

The society adjourned its meetings
to next September as is the usual
custom of late years.

E. REAGAN, Secretary.

AMERICAN ASSOCIATION OF NURSERYMEN.

President Albertson in his opening
address at the Dallas convention re-
ferred to the past year as one of the
best and most prosperous in the his-
tory of the nursery business and saw
even better returns for the coming
year; dwelt briefly upon the great
benefits secured to the trade through-
out the country through the efforts of
the legislative committees in regard to
uniformity in laws relating to inspec-
tion, tags or certificates, and their
general adoption which if followed up
will certainly be accomplished; called
attention to the need of defeating an
appropriation by the Government for
free distribution of nursery stock
similar to the free seed distribution,
state license laws, etc., and the neces-
sity of keeping a careful watch on the
advantages gained through the trans-
portation committee to avoid a re-
versal.

He recommended action in connec-
tion with the representatives of the
National Horticultural Inspectors
Association in attendance, on the
securing the adoption of more uniform
methods of inspection, issue of certi-
ficates, use of universal tags or certi-
ficates, and possibility of securing
adoption or approval of same by states
now requiring that their special state
tags be used; also that the Association
be represented at as many of the
National Associations as possible
where matters of interest to their
business are to be considered, and at
the different meetings of the Freight
Committees.

The employment of one person who
could give his entire time to the work;
the selection of a good member in
each state to watch and report to the
legislative committee any proposed
legislation affecting the business and
effect such changes in existing laws as
would make for uniformity and re-
lieve the business of some of its bur-
dens, were recommended.

He suggested an increase in the
membership fee to \$5.00 and asked if
a guarantee fund could not be raised
out of the savings on the freight bills
alone, to provide funds for the main-
tenance of the work. Also that for all
standing committees except the execu-
tive, one member be appointed to look
after each department of the work and
he be authorized to call to his assist-
ance such help as he may need from
time to time from the most convenient
section.

He advocated a standard grade for
all kinds of nursery stock as against
the grading of different growers in
different sections.

AMERICAN SOCIETY OF PARK SUPERINTENDENTS.

The banquet tendered to the mem-
bers of this association visiting in



BYRON D. WORTHEN,
President-elect of the American Association
of Park Superintendents.

Washington, briefly mentioned in our
notes last week, was a most enjoyable
affair. Peter Bisset, president of the
Washington Florists' Club, presided,
and J. R. Freeman officiated as toast-
master. President Theodore Wirth
gave an interesting talk on gardening
conditions in Europe and America in
comparison. George H. Brown con-
tributed historical notes of the parks



F. L. MULFORD,
Secretary-Treasurer-elect of the American
Association of Park Superintendents.

of Washington. J. A. Pettigrew, in
speaking on the tree question, said
that Washington was the best planted
city he had ever seen. John Chambers
responded eloquently for Canada and

gave a glowing foretaste of what the
association might expect on the occa-
sion of its visit to Toronto next year.
Dr. Frank Baker recited some of the
trials of a park superintendent, and
Mr. Zartman and others joined in
grateful recognition of the courteous
hospitality of the Washington hosts.

On Thursday forenoon there was a
business session, and in the afternoon
the members were accorded the privi-
lege of a handshake with President
Roosevelt.

On Friday about fifteen of the vis-
itors went to Baltimore, where they
were cordially received, given a drive
through the fine park system of that
city, and then entertained by the park
commission with a sumptuous ban-
quet.

ELBERON HORTICULTURAL SO- CIETY.

At the rose and strawberry show
held by this society on June 11 there
was a fine exhibit of roses, cut flowers,
and strawberries. The principal
awards were as follows: Best 25 roses,
1st, J. Kennedy; best 12 roses, 1st,
F. Dettlinger; W. D. Robertson, special
prize for exhibit of cut flowers; A.
Bauer, first prize for vase of Baby
Rambler roses and special for vase of
paeonies; H. Hall special prize for vase
of oriental poppies; W. D. Robertson,
special prize for vegetables; A. Grieb,
special prize for vegetables and best
collection of strawberries; G. Conover,
first prize for best dish of strawberries.
The judges were Mr. Kennedy of
Oceanic and Harry Bunyard of New
York.

Arrangements for the flower show
which is to be held on July 13 and 14
were discussed, and everything seems
to indicate that the affair will be a
success.

GEORGE MASSON, Secretary.

MASSACHUSETTS HORTICUL- TURAL SOCIETY.

The annual rose and strawberry ex-
hibition of the Massachusetts Horticul-
tural Society will be held on Friday
and Saturday, June 22 and 23. Special
features of this show will be the nota-
ble displays of hardy roses from the
gardens of Miss Sarah B. Fay of Woods
Hole, under the superintendence of
that skilful rosarian, M. H. Walsh,
and from the estates of William Whit-
man of Brookline, W. J. Clemson and
Alex. McCready of Taunton, Mrs. J.
B. Lawrence of Abington, and Mrs.
E. M. Gill of Medford.

There will be also several collections
of late flowering peonies as well as of
other floral products from many of the
noted gardens in the vicinity of Boston.

It has been a favorable season for
roses and it is expected that the dis-
play will be an excellent one.

The exhibition which is free to all
will be open Friday from 12 to 6
o'clock and on Saturday from 10 to 6.

WM. P. RICH, Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The Chrysanthemum Society of
America has accepted the invitation of
the Horticultural Society of Chicago to
hold its meeting in conjunction with
the above named society November
6th to 12th inclusive.

DAVID FRASER, Secretary.

AN OUTING AT CINCINNATI.

The outing committee of the Cincinnati Florists' Society have selected the Norwood Inn as the place for their picnic. Thursday, July 19, is the date. Most of the craft spent a day at this resort last summer on the invitation of Rusciani and George & Allan. There is a fine ball park in connection with the grounds, also bowling alleys where the members can do a little practice work preparatory for Dayton. The committee is making great preparations and a good time is assured all who attend. Liberal prizes will be offered for various games and sports.

CLUB AND SOCIETY NOTES.

The fifth annual convention of the National Nut Growers' Association is called to meet at Scranton, Miss., October 31, November 1, 2, 1906.

The annual exhibition of the North Shore Horticultural Society will be held on the grounds of the Essex County Club, June 27 and 28. The principal feature will be a rose and strawberry exhibit.

Remember the N. Y. Florists' Club outing at Witzel's Point View Grove, Monday, July 2, 1906. Tickets can be had of the committee, L. W. Wheeler, chairman; J. H. Pepper, secretary, or Joseph S. Fenrich, treasurer, 110 West 28th street, New York City.

The Tri-City Florists' Club met with William Knees in Moline, Iowa, on June 7, and after the transaction of business, an address by Frank Shurtleff of Moline on "The Vacuum System of Heating," and discussion of the picnic at the Watch Tower on June 28, the cornerstone of Mr. Knees' new range of greenhouses was laid and an appropriate speech was made by President John Temple. These houses will have steel framework and embody all the latest practicable devices. A feature of the meeting was the exhibition of 40 varieties of peonies by H. G. Bryant of Davenport.

At the meeting of the German Gardeners' Club of New Orleans on June 6 addresses were made by Mr. Wichert on aquatics and R. Eichling on lilies, of which he showed two species, *L. aureum* and *L. lancifolium rubrum*. This society has now twenty-two members, all German or German-speaking gardeners. It meets on the first Wednesday of every month, and after routine business the custom is to discuss the culture of some special plant. The present officers are: Louis Muller, president; Henry Kraack, vice-president; John H. Rinck, treasurer; Martin Gaillot, secretary; Robert Reincke, Richard Eilers and F. Brocker, directors.

FIRE RECORD.

A large barn belonging to D. Robinson & Sons, florists, of Everett, Mass., was entirely destroyed by fire on June 13. The loss was heavy but was covered by insurance.

A fire caused by spontaneous combustion consumed the greenhouse of Isaiah Gauley, 17 Spring street, Brighton, Mass., on June 14. The loss is placed at \$2000.

THEORIES AND FACTS IN PLANT BREEDING.

Editor HORTICULTURE:—I seem to be sharply arraigned in the issue of HORTICULTURE of May 26th, by Anne Dorrance, for the statements made in the article by me published April 21st. That article she says contains many statements which are very loose and very inaccurate. Not only this, but the article summarizes two laws in a manner "both absurd and incorrect." She admits that the Galton law is somewhat as crudely stated by me, so that disposes of the charge of inaccuracy so far as the Galton law is concerned. She also says, "In 1901 in its journal, The Royal Horticultural Society of England published a translation of Mendel's own paper describing his experiments. This was made by Prof. W. Bateson of Cambridge University and is, so far as I know, the first publication of this paper in English. Nowhere in this or in subsequent papers could any statements be found which would lead to such a change of breed in poultry as Mr. White describes, nor could Mendel find in this description any trace of his theory. Mr. White in his version of Mendel's law supposes the purity of parents, hence the purity of germ cells. Does it take a law deduced by hard labor, both mental and physical, as Mendel's law was, to predict that if two pure individuals be bred together their offspring will be pure? How could it be otherwise? Such a statement is adding insult to injury."

"The conception of the purity of parents is not only untenable but unthinkable, unless we throw away our basal theory of evolution and accept that of special creation." As to the above question, "How could it be otherwise?" I will ask, does she not understand that I was dealing with hybrids, and does she not know that if two individuals of two pure species are bred together that the offspring will be a hybrid, a combination of the two, a blend, and not pure? As to the insult, I will say that according to the code no insult is given where none is intended, and as to the injury I hope it is not serious. What is usually understood as pure bloods, are such plants and animals as reproduce themselves.

She says that the conception of purity of parents is not only untenable but unthinkable. Now Hugo de Vries has created a new species that is pure and the fact is not only tenable and thinkable but is a reality.

As my critic has quoted Bateson I will quote from his paper read at the International Plant Breeders' Conference held in New York in 1902. He says, "If a pea with green cotyledons be crossed with one having yellow cotyledons a hybrid is produced. That hybrid grows up and bears peas in its turn. Those peas will be composed each individual pea, of a union of two germs, each germ being a carrier of either one or the other of the pure parental characters, therefore we may have two green germs uniting, or two yellow germs uniting, or a yellow germ uniting with a green."

In another case he speaks of using pure parental forms, and no one felt injured or insulted. Again I quote from a paper read before the American Breeders' Association, Feb. 1-3, 1905,

with the Cupid sweet pea and I think by Dr. H. J. Webber, in charge of plant breeding laboratory, U. S. Department of Agriculture, subject, Mendel's law, "What would happen if the hybrids were bred with its own pollen, or if in the case of an animal it were with another exactly similar hybrid?" Suppose, for the purpose of illustration, a hybrid of a fuzzy-seeded with a black-seeded cotton be fertilized with its own pollen. Let us consider that a given number of egg cells, 100 for instance, incidentally fertilized with 100 pollen grains of the same hybrid. There are two kinds of egg cells produced, some with the potentialities of the fuzzy seed and some with the potentialities of the black seed, and the same is true of the pollen grains, taking the egg cells and pollen grains without selection, therefore, we would expect to have of the egg cells, 50 with fuzzy-seed potentialities and 50 with black-seed potentialities.

If these are now brought together, letting the law of chance govern the union the probability is that we would have 25 fuzzy uniting with 25 fuzzy, 25 fuzzy uniting with 25 black, 25 black uniting with 25 fuzzy and 25 black uniting with 25 black. Using f. to represent fuzzy-seed potentialities, b. to represent black-seeded potentialities, we would have the following formula which will explain the probable unions graphically:

$25f. + 25f. = 25ff.$
(These do not contain potentialities of b. and will produce true.)

$25f. + 25b. = 25fb.$
 $25b. + 25f. = 25bf.$
(These are hybrids, so far as this character pair is concerned exactly the same as in the first generative containing potentialities of both f. and b.)

$25b. + 25b. = 25bb.$
(These do not contain the potentialities of f. and will reproduce true.)

This ought to satisfy my critic that poultry may be bred in accordance with Mendel's law. She says "let Mr. White examine a little into the intricacies of these cells which he so glibly plans to read." I made no plan glibly or otherwise; I simply stated the limit of our knowledge in that direction. She winds up her onslaught by calling my closing statement a marvellous finale. Well it was a marvel to King John how the devil the apple came inside the dumpling. Now I stated early in my article that there are two classes of plant breeders, one seeks purity and fixity of strains, the other seeks to produce new and improved forms by combining many species and varieties which adds to the complexity of characters of many plants, such as grapes, apples, pears, etc. These plants never reproduce themselves, and cannot in any sense be considered pure except as species.

Of course where there is such a complexity of characters Mendel's law is of less value, but it is not the fault of the law. This is why no two are alike in many thousands of seedling grape-vines, no marvel when viewed with an honest purpose. Miss Dorrance seems to abhor the idea of pure parentage. Well, there are still some people who believe that the world is flat and that the sun revolves around it. Her authority, Bateson, often uses the term, pure organism, parentage. "He says I have been experimenting

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the possibility attaches itself at once that it is a pure form." I know of a peach that is growing in the vicinity of Boston and has been for over fifty years, that reproduces itself every time. Bateson says that when similar germs meet they produce a pure bred organism which in my terminology is called a homozygote—a yoking together of like germs. When the germs are dissimilar they make a new form, a hybrid form, which in this terminology we may call a heterozygote—the yoking together of two dissimilar germs in the zygote form. Miss Dorrance protests against my calling Mendel's law a boon. Now if I show her that Prof. Bateson has put it stronger than I did will she come down from her high horse? Prof. W. W. Spillman while discussing Mendel's law said "I agree with a statement of Prof. Bateson already published in which he states that he regards Mendel's discovery as of equal importance with the formation of the atomic theory in chemistry."

A word more about the poultry question. Prof. Bateson in describing the Andalusian fowl and applying Mendel's law to their breeding confirms all that I said upon that matter.

Miss Dorrance takes exceptions to my closing statement. I can hardly believe that she doubts my statement in regard to perpetuating varieties pure by budding and grafting, as proof of that I will refer to our old varieties of apples, the Baldwin, R. I. Greening, Roxbury Russet, etc., they are as pure today as when first introduced. Of course there has been cases where the stock has influenced the scion, perhaps one case in 10,000, but that is too rare to quibble about. I once produced a hybrid by grafting the Seckel on the Pope Pius. The ninth year it was a complete blend of the two varieties. But such exceptional cases don't destroy the rule. The above facts will place Miss Anne in a dilemma, she will not want to admit that I am right, neither will she be willing to say that Prof. Bateson is wrong.

N. B. WHITE.

NEWPORT PLANT TRADE.

The season for the sale of bedding plants is about closed and every grower and dealer admits that it was the most profitable in a number of years. The prices obtained were about the same as in recent years, but the demand early in the season was much brisker than was anticipated and it seems the purchases of large lots were

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far more numerous this year, thereby adding considerably to the net profits because of less expense in handling and delivery. Great numbers of begonias were sold and several growers had difficulty in filling orders. What helped the demand for large lots of bedding plants this spring more than anything else perhaps was the decision of many cottagers who were absent last season to open up this year and spend the summer in Newport. That decision will also help the florists later on because many of those we have referred to are among the most liberal dispensers of hospitality within the bounds of society, and no society function is worthy the name without floral decorations in keeping with the status of the host and hostess.

NEWS NOTES.

John J. Perkins & Son will remove about July 1 from 115 W. 30th street to 50 W. 28th street, N. Y.

C. L. Marshall of Lowell, Mass., claims \$3,000 damage from the city on account of a sewer which has caused his wells to dry up and thereby entailed large expense for carrying water to his greenhouses, etc. The case is under advisement.

Wm. Elliott & Sons' annual auction trade sale at 201 Fulton street, New York, takes place on Tuesday, June 26. Mr. Elliott says the stock will be the most desirable he has ever had to offer at this season and expects an old-fashioned reunion of the trade buyers from far and near.

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SCOTTII, (All Sold) . . . 5 " "
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Nutt, Poitevine, Ricard, Jaulin, 3 in., \$5.00 per 100. BOSTON FERNS, ready for 5 in. pots, \$35.00 per 100; 6 in., \$60.00 per 100; 7 in., \$65.00 per 100.

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SEED TRADE.

Within the past ten days abundant rains have fallen in Michigan, so abundant, in fact, as to be a source of great anxiety to farmers and seed growers. "One extreme follows another" has proved true in this case at least, as reports from the "Thumb," where from 20,000 to 40,000 bushels of peas and beans are planted, indicate that it is or has been under water to a considerable extent. Conditions are quite similar to those of last year at about this time, and which resulted in reducing the crop fully 50 per cent. Keep your eye on the "Thumb." Corn is not doing well as weather on the whole has been too cool and dry. As yet there are no reports of serious damage to general seed crops excepting the annual scare from California, which hardly awakens interest these days.

Those desiring rooms at the Boody House, the official headquarters during the coming convention of the American Seed Trade Association, should apply at once, as this hostelry is of somewhat limited capacity. Toledo needs a new hotel.

Those who like to travel by water, and are going to the coming convention at Toledo, can have this pleasure. Eastern seedsmen can go by rail to Buffalo and thence by steamer to Detroit, whence they can go by steam or electric railroad to Toledo in about two hours. The steamers leave Buffalo about 5.30 p. m. daily, arriving at Detroit next morning. They are large and magnificent boats, and the trip is a delightful one.

LIST OF PATENTS.

Issued June 15, 1906.

- 823,007. Hop-Scoop. Charles True, Sherwood, Oregon.
823,111. Seed-Separator. Edwin C. Foltz, Louisville, Ky.
823,272. Weeding-Tool. Theodore D. Halpin, Lapeer, Mich.

New Crop of my Christmas Flowering SWEET PEA SEED

Christmas Pink and Florence Denzer, pure white, will be ready August 1st.

Those two well-known varieties are raised by over 2000 florists all over the world. Here is one, out of many letters received:

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Price 1-4 M. 75c.; 1 M. \$2.00
MAILED FREE

New Christmas Flowering Hybrids. 20 to 30 colors, mostly blue, salmon, purple, lavender, in mixtures; also Mrs. Edie Wild, carmine, separate color. 1 Trade pkt. \$1.00, 5 Trade pkts. \$4.00; not more than 5 pkts. taken in order to each customer just now. Those new hybrids are just as free bloomers as Christmas Pink and Florence Denzer, some much larger, and received first class Certificate of Merit by the Mass. Horticultural Society, Boston, March 21.

All seed originated with me is sold in my original sealed pkts., with cultural direction, to the growers, but none for seedmen for propagating.

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Hybrida Grand, mixed	\$.60	\$1.00
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Cineraria		
Grand Prize, med. tall mixed	.60	1.00
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Michell's Prize Mixture. A splendid mixture of the finest separate colors	.60	1.00
Primula Obconica		
Grandiflora Hybrida mixed	.30	

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	100	1000
Caladium Esculentum		
4-5 inch	\$1.00	\$9.00
Gladiolus		
Augusta, finest white	2.00	18.00
May, white flaked crimson	1.50	12.00
Pink and variegated	1.00	9.00
Very choicest mixed	.90	8.00

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Satisfaction guaranteed. No matter how large or small the order it will be filled promptly and with the best and freshest stock right from the woods.
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TELL US YOUR WANTS, WE WILL DO THE REST

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PHILADELPHIA NOTES.

Jno. Burton is serving on the United States jury, which is at present holding sittings in the federal building.

Wm. J. Muth of the Cut Flower Co. reports that his firm is moving their office down to the main floor. Cold storage facilities have been improved by utilizing waste space to the rear.

Among the cargoes on the Marquette and Abyssinia were large consignments of cycas leaves, moss wreaths, raffia, cork bark and other supplies for H. Bayersdorfer & Co. Mr. Bayersdorfer is at present in Europe and reports that he will send on following steamers a fine lot of novelties for the Dayton convention, as well as staples for the fall trade.

There is talk of a popular reception being tendered to Mr. Hugh Dickson of Belfast by the Florists' Club. The man to whom we owe Liberty, Killarney and dozens of other fine roses certainly deserves all the public recognition we can give him.

The Waretown Rod and Gun Club, which is composed mostly of Philadelphia florists, with Jno. Westcott at the head, held its annual opening on the 15th, 16th and 17th inst. The first day the company were guests of Commodore Westcott, who is well known as a good entertainer, and was as usual indefatigable in looking after the comfort of everybody. A pleasing incident of the proceedings was the presentation to the host of a silver-mounted oak loving cup. After the dinner, to which a large company sat down, speeches were in order, all of them full of good humor and jollity, and the time flew by on lightning wings. To quote Thomson:

"One well-spent hour
In such a tender circumstance for friends
Is better than an age of common time."

Among those who distinguished themselves one way or another were: Richard Lynex, aged 84, and still hale and hearty; Robert Craig, W. B. Westcott, C. H. Eimerman, Jno. H. Dun-

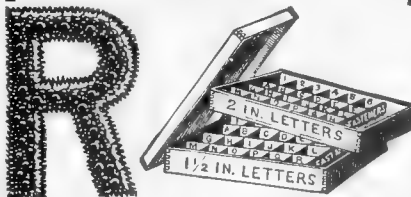
ham, George Redford, S. S. Pennock, Alfred Hoegerle, David Rust, W. H. Westcott, W. K. Harris, Francis Borelli, A. Y. Hanna, Robert Kift, J. W. Colfesh, G. C. Watson and Tillie the cook. We hear there was some fishing but saw none of it, and all the shooting that came under our observation was immaterial—the only damage being a few tin cans well battered and Watson's magazine shot full of holes.

G. C. W.

On the night of June 11 heavy frost damaged much vegetation throughout northern New York state. The ground was slightly frozen in some places. June 12 was the coldest June morning in many years.

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Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

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Largest Wholesale House Between
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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO June 18		ST. LOUIS June 5		PHILA. June 4		BOSTON June 21	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	30.00	to 40.00	15.00	to 20.00	20.00	to 25.00	8.00	to 25.00
" Extra.....	15.00	to 25.00	10.00	to 12.00	15.00	to 18.00	6.00	to 8.00
" No. 1.....	8.00	to 10.00	6.00	to 8.00	12.00	to	4.00	to 6.00
" Lower grades.....	.....	to	3.00	to 4.00	5.00	to 8.00	.50	to 2.00
Bride & 'Maid—Fan. & Sp.....	8.00	to 10.00	3.00	to 4.00	6.00	to	4.00	to 6.00
" Extra.....	5.00	to 6.00	2.00	to 3.00	4.00	to 5.00	3.00	to 4.00
" No. 1 and Lower gr..	3.00	to 4.00	1.00	to 2.00	2.00	to 3.00	.35	to 1.00
Liberty, Fancy.....	6.00	to 8.00	.....	to	8.00	to 12.00	6.00	to 8.00
" Ordinary.....	3.00	to 4.00	.....	to	3.00	to 5.00	.50	to 3.00
Richmond, Fancy.....	6.00	to 8.00	10.00	to 12.50	8.00	to 12.00	6.00	to 10.00
" Ordinary.....	3.00	to 4.00	3.00	to 4.00	3.00	to 5.00	.50	to 3.00
Golden Gate, Fancy.....	6.00	to 8.00	3.00	to 4.00	6.00	to	3.00	to 5.00
" Ordinary.....	3.00	to 4.00	1.00	to 3.00	3.00	to 5.00	.50	to 1.00
Chatenay, Fancy.....	6.00	to 8.00	3.00	to 4.00	6.00	to	3.00	to 5.00
" Ordinary.....	3.00	to 4.00	1.00	to 3.00	3.00	to 5.00	.50	to 1.00
CARNATIONS								
Fancy.....	1.50	to 2.50	1.50	to 2.00	2.00	to 3.00	.75	to 1.00
Ordinary.....	.75	to 1.00	.75	to 1.00	1.00	to 1.50	.35	to .75
MISCELLANEOUS								
Cattleyas.....	.....	to .....	.....	to	50.00	to 60.00	40.00	to 60.00
Lilies.....	8.00	to 10.00	6.00	to 10.00	10.00	to	5.00	to 8.00
Callas.....	.....	to	6.00	to 10.00	10.00	to	5.00	to 8.00
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Paeonies.....	.....	to .....	.....	to .....	.....	to	4.00	to 6.00
Sweet Peas.....	.50	to 1.00	.25	to .50	.25	to .50	.15	to .30
Mignonette.....	.....	to	1.00	to 2.00	2.00	to .....	.....	to 1.00
Adiantum.....	.50	to 1.00	.....	to 1.00	1.00	to .....	.75	to 1.00
" Cuneatum.....	.....	to .....	.....	to	1.00	to 1.50	.....	to 1.50
" Croweanum.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Smilax.....	10.00	to 15.00	12.00	to 15.00	15.00	to 20.00	12.00	to 16.00
Asparagus Plumosus, strings.....	25.00	to 35.00	25.00	to 50.00	35.00	to 50.00	.....	to 50.00
" " & Sprenger bunches	25.00	to 35.00	25.00	to 50.00	35.00	to 50.00	20.00	to 35.00
Lilacs per 100 bunches ..	.....	to .....	.....	to .....	.....	to .....	.....	to
Snapdragon.....	.....	to .....	.....	to .....	.....	to .....	.....	to

J.A. BUDLONG

37-39 Randolph Street, CHICAGO.

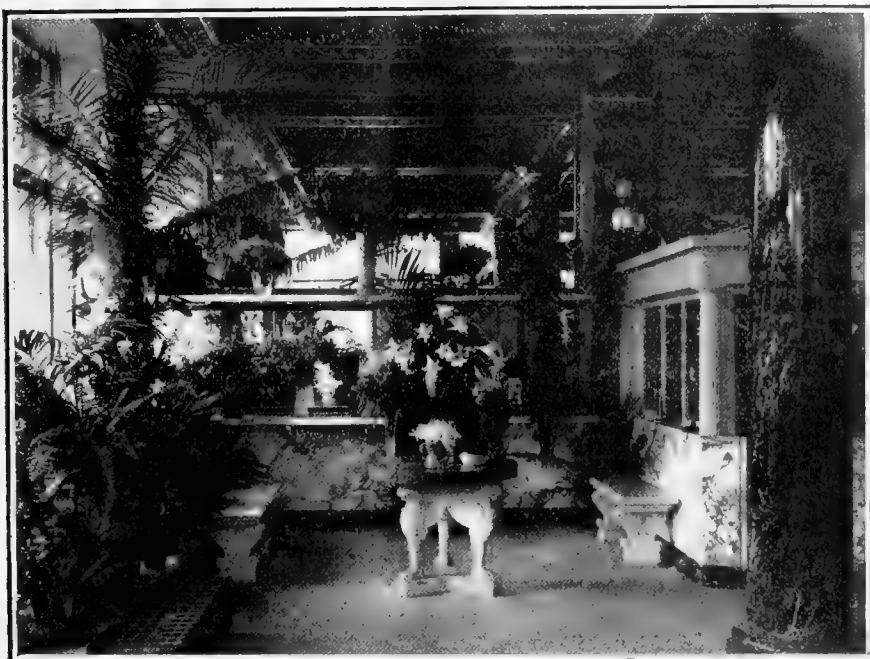
Roses and
Carnations
A Specialty.....

WHOLESALE
GROWER OF

CUT FLOWERS

The Breitmeyer Flower Store

See Frontispiece.



Detroit may well claim the credit of having the finest flower store on this continent. John Breitmeyer & Sons have set the pace that will mark a new departure in the building, equipment and appointments of flower stores. The establishment, illustrated in our frontispiece and on this page, is in the Breitmeyer Building, an office structure, on the ground floor of which the store is located.

The first impression upon entering the place is that of elegance, grandeur and good taste. The main room, 50x70, is designed after and carried out in the style of the Italian renaissance. The lofty ceiling, supported by four immense columns of Verde antique marble, represents a sky of the richest blue, such as one may see only in sunny Italy. The floor is of pure white Italian mosaic, fan-like in design, with a key border in black. Broad marble shelves at a height of four feet and resting upon marble wainscoting, surround the entire room. Immediately above these and extending up to the ceiling are heavy French mirror plates, each imbedded in a sort of Verde antique gold frame. The general effect is heightened by the four capitals of the columns, supporting the ceiling, being finished in Roman gold.

The east end of the room is taken up by the "ice chest"—a large marble and plate-glass room, brilliantly illuminated by the touch of a button. The ice is invisible and the room is perfectly ventilated. There are marble shelves and table, also an invisible sink used for the emptying and filling of vases—a unique convenience.

Several bronze urns, especially designed, scattered here and there through the room lend a charming effect. A balcony above and covering

the entire width of the marble and plate-glass room (ice chest) provides spacious quarters, ample light and all the comforts necessary for a good-sized orchestra. The office is located on the north side. Here also every minutest detail to insure comfort and system have been carried out to the fullest extent.

Especial ingenuity is shown throughout in the blending of the useful with the ornamental. A brilliant light is shed from an antique bronze and crystal chandelier of great beauty, and massive antique bronze torches fastened here and there to the walls throughout the room.

The show windows, facing two streets, while in nowise copied from an "Italian palace," possess nevertheless some attractive features calculated to soften in a degree the matter-of-fact commercialism of the average display window. Here plants are not stored merely, but are displayed so that the decorative feature is predominant. A beautiful Carrara marble fountain at the southwest corner of the main window lends additional charm.

The furniture well harmonizes with the general surroundings. Three Verde antique tables, one 5x10 and two circular ones, each 4 feet in diameter, are works of art, sculptured at Florence under the supervision of Ninchelini. Numerous marble benches are scattered through the room.

In the work, storage and stock rooms—all located in the "nether" region—every imaginable comfort and convenience have been well studied out and provided for.

Wm. Wright & Co., the Detroit decorators and designers, executed the contract.

S. S. SKIDELSKY.

Cut Flower Market Reports

Business is very flat in the **BOSTON** wholesale establishments although the retail dealers are fairly busy with school work and wedding occasions. So much out-door material is used that the wholesale market, overstocked as it is, gets but little benefit from the business. Roses are away down as to quality. Brides and Bridesmaids, the last of the season's crop, are covered with mildew and useless to any critical buyer. Beauty is selling fairly well. Liberty and Jacq. are also enjoying a good sale. Carnation are in very bad shape. The supply is larger than at any time during the entire season and there is no call whatever for them. Peonies had their career cut short by the spell of cold rainy weather and are now practically down and out. Sweet peas are in heavy over supply. The lily of the valley supply is much too large for the needs of the market.

It may be said that the **BUFFALO** past week has been a busy one for all, and will continue for the balance of the month. Stock of all kind has been plentiful, in fact too plentiful to hold the prices firm. Carnations have diminished in size and some varieties are no larger than out-door pinks, Lawson being the leader in quality, together with Flora Hill. Enchantress, Marquis and other varieties are pretty much on the sleep list, but Red Lawson is holding well and is the leader in red. An over-supply of all kinds was had the past week up to Friday, when a good quantity was in waiting for the cemetery florists, but again cloudy weather and rain checked moving. Roses were also plentiful, especially the ordinary, selects selling well at good prices. Peonies selling well under normal supply. Lily of the valley, peas and other flowers are of fine quality and demand good.

The market for the past **CHICAGO** two weeks has been entirely in the hands of the retailers to get stock at their own will and price, but the tables turned Saturday, and the wholesalers regained the lead and brought the retailers to a halt, prices having increased a few notches. This week bids fair to be a busy one, as the last of the commencement exercises will be held. While stock in general is not at its best, some good carnations and roses are to be found, sweet pea stock is shortening a little, and the peonies are holding forth in full blast, all hands on deck, the long and the short, the large and small, and all bringing good prices. The Beauties are causing a world of trouble; not a first-class bloom to be had from anyone. The retailers have been forced to substitute Richmond and Liberty roses. A few Beauties are to be seen here and there, but the flowers look like colored peanuts on Beauty stems, and the price for them is almost doubled. Green goods are in a normal condition and bringing the usual price.

(Continued on page 805.)

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Wholesale Commission Florist

COOGAN BUILDING

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send your flowers to

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55 West 26th Street, New York.

Telephone 2921 Madison Square.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending June 16 1906	First Half of Week beginning June 18 1906		Last Half of Week ending June 16 1906	First Half of Week beginning June 18 1906
Roses			Carnations, Fancy	1.00 to 1.50	1.00 to 1.50
Am. Beauty and Edgeley fan and sp.	10.00 to 15.00	10.00 to 15.00	Carnations, Ordinary.....	.25 to .75	.25 to .75
" extra.....	6.00 to 8.00	6.00 to 8.00	Cattleyas	35.00 to 60.00	35.00 to 60.00
" No. 1.....	3.00 to 5.00	3.00 to 5.00	Lilies	4.00 to 5.00	4.00 to 5.00
" Lower grades.....	1.00 to 2.00	1.00 to 2.00	Callas	4.00 to 5.00	4.00 to 5.00
Bride & 'Maid, fan and sp.	4.00 to 5.00	4.00 to 5.00	Lily of the Valley	1.00 to 4.00	1.00 to 4.00
" extra.....	2.00 to 3.00	2.00 to 3.00	Paonies	1.00 to 4.00	1.00 to 4.00
" No. 1 and lower grades....	.50 to 1.00	.50 to 1.00	Sweet Peas, bunches	2.00 to 5.00	2.00 to 5.00
Liberty, fancy	6.00 to 8.00	6.00 to 8.00	Mignonette.....	.50 to 1.00	.50 to 1.00
" ordinary.....	.50 to 4.00	.50 to 4.00	Adiantum Cuneatum.....	.50 to .75	.50 to .75
Richmond, fancy	6.00 to 8.00	6.00 to 8.00	" Croweanum.....	..... to 1.50	..... to 1.50
" ordinary.....	.50 to 4.00	.50 to 4.00	Smilax	10.00 to 15.00	10.00 to 15.00
Golden Gate, fancy	4.00 to 5.00	4.00 to 5.00	Asparagus Plumosus	20.00 to 30.00	20.00 to 30.00
" ordinary.....	.50 to 2.00	.50 to 2.00	" & Sprenger, bunches	10.00 to 20.00	10.00 to 20.00
Chatenay, fancy	4.00 to 5.00	4.00 to 5.00	Snapdragon.....	..... to .....	..... to
" ordinary.....	.50 to 2.00	.50 to 2.00			

ORCHIDS AT ALL SEASONS**WM. STUART ALLEN CO.**

Commission Merchants in Cut Flowers

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Telephone 356 Madison Square

Edward C. Horan**Wholesale Florist**

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1463

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WHOLESALE FLORISTS

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Charles Millang

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and returns made promptly.

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\$1.50 per 1000

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Wholesale Florist**

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PHILADELPHIA, PA.

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BEST LINE IN THE COUNTRY

Our Mr. Jos. Stern has

CONE TO EUROPE

to buy your florist supplies and novelties for
the autumn. Buy of the enterprising florist
supply house

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**BEAVEN'S
FADELESS
SHEET MOSS**

**\$2.50
per
case**

Send for Circular and sample

LYRATA

a lasting evergreen, takes the place of
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well worth trying.

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And all kinds of Seasonable Flowers

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BUFFALO, N. Y.

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We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

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Fresh Northern, \$1.00 per 1000.

LYRATA, the best substitute for Smilax, \$7.00 per case.

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	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	June 19		June 5		June 19		June 19	
ROSES								
Am. Beauty and Edgely, fan and sp.	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00
" extra.....	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	12.50	to 18.00
" No. 1.....	10.00	to 12.50	10.00	to 15.00	10.00	to 15.00	8.00	to 10.00
" Lower grades.....	5.00	to 8.00	6.00	to 8.00	5.00	to 10.00	2.00	to 4.00
Bride and Maid, fan, and sp.....	8.00	to 10.00	6.00	to 8.00	7.00	to 8.00	6.00	to 8.00
" extra.....	5.00	to 6.00	5.00	to 6.00	4.00	to 7.00	4.00	to
" No. 1 and Lower grade.....	2.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to
Liberty, fancy.....	8.00	to 10.00	6.00	to 8.00	6.00	to 10.00	.....	to
" Ordinary.....	3.00	to 5.00	4.00	to 6.00	3.00	to 6.00	.....	to
Richmond, Fancy.....	8.00	to 10.00	6.00	to 8.00	6.00	to 10.00	8.00	to 10.00
" Ordinary.....	4.00	to 6.00	4.00	to 6.00	3.00	to 6.00	4.00	to 6.00
Golden Gate, Fancy.....	6.00	to 8.00	6.00	to 8.00	5.00	to 6.00	.....	to
" Ordinary.....	2.00	to 4.00	3.00	to 4.00	3.00	to 5.00	.....	to
Chatenay, Fancy.....	6.00	to 8.00	6.00	to 8.00	.....	to .....	.....	to
" Ordinary.....	4.00	to 6.00	4.00	to 6.00	.....	to .....	.....	to
CARNATIONS								
Fancy.....	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00	.....	to 2.00
Ordinary.....	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	1.00	to 1.50
MISCELLANEOUS								
Cattleyas.....	10.00	to 12.00	10.00	to 12.00	40.00	to 60.00	.....	to
Lilies.....	10.00	to 12.00	10.00	to 12.00	10.00	to 12.00	12.50	to 20.00
Callas.....	10.00	to 12.00	10.00	to 12.50	8.00	to 10.00	.....	to
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Paeonies.....	3.00	to 4.00	3.00	to 4.00	3.00	to 5.00	6.00	to 8.00
Sweet Peas.....	.35	to .50	.50	to .60	.35	to .60	.20	to .75
Mignonette.....	1.00	to 2.00	1.00	to 2.00	.....	to .....	.....	to
Adiantum Cuneatum.....	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	1.00	to 1.25
" Croweanum.....	1.25	to 1.50	1.25	to 1.50	.....	to .....	.....	to
Smilax.....	12.50	to 15.00	12.50	to 15.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, strings.....	40.00	to 50.00	40.00	to 50.00	40.00	to 50.00	.....	to
" " & Sprenger, bunches.....	35.00	to 40.00	35.00	to 40.00	25.00	to 30.00	.....	to
Gladiolus.....	3.00	to 6.00	3.00	to 6.00	.....	to	3.00	to 6.00
Snapdragon.....	1.00	to 2.00	1.00	to 2.00	.....	to .....	.....	to

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

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to 805.

The KERVAN CO. 20 WEST 27th ST., N. Y.

WHOLESALE DEALERS

Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothoë, Ferns and Mosses - All Decorating Evergreens.

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Asparagus Plumosus nanus or Asparagus Sprengeri seedlings, strong, thrifty 100 \$1.25, 1000 \$10.00. H. H. Berger & Co., 47 Barclay St., N. Y. City.

Asparagus Plumosa, 2-in. pots. Five plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

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We have a good assortment of bedding plants. Write for prices. J. W. Colflesh, 53rd and Woodland Aves., Philadelphia.

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Jerusalem cherries, seedlings, 25c. per 100; 2-1-2-in. pots, \$3.00 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

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Bulbs, Narcissus P. W. G., a fine season, fine bulbs. Prices on application. Correspondence solicited. Misses Wilson, Mildred & Pleasant Sts., Montgomery, Ala.

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Cannas, Bronze and French, 4 inch, \$6 per 100. A. F. Belcher, Foxboro, Mass.

10,000 fine potted stock ready to plant. 20 best sorts. List free. Benjamin Connell, West Grove, Pa.

Cannas, from 4-inch pots, leading varieties, fine stock. J. W. Adams & Co., Springfield, Mass.

Cannas Alemannia and Austria, 4-in., \$4.00 100; same varieties, started from moss, well rooted, \$2.00 100. Geo. L. Miller Co., Newark, O.

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5000 best commercial sorts. List free. Benjamin Connell, West Grove, Pa.

Chrysanthemums, out of 2-1-2-in. pots, good strong stock. Write for varieties and prices. Pittsburg Rose & Carnation Co., Gibsonia, Pa.

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Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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ENGLISH IVY.

English ivy, two and three-inch stock.
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Ferns from flats, best sorts, \$1.25 100;
\$10.00 1000. Ferns for fern dishes, 2 1/2-in.,
\$3.00 100; \$25.00 1000. Fern spores, named
or mixed, 25c. pkt.; large pkt., 50c. H. H.
Berger & Co., 47 Barclay St., N. Y. City.

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Floral Photographs. Foley's 226-228 1-2
Bowery, New York.

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A sample 100-lb. bag of Blatchford's
Plant Grower and Land Renovator Fer-
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of pure rose growers' bone meal, nitrate
of soda, Peruvian guano, sulphate of am-
monia, sulphate of potash and gypsum, in
the correct proportions. For benches and
potting plants, roses, carnations, lilies,
mums, etc., it has never been surpassed.
Address J. W. Barwell, Blatchford's Calf
Meal, Animal and Poultry Foods, Fertil-
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Ill. Established at Leicester, England, in
1800.

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For Geraniums New Life. Telegraph.
Trego and Jennings kinds, true for stock.
Write, Romy Bros., West Grove, Pa.

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HYDRANGEAS.

Hydrangea plants in flower, 6-in. pots,
\$3.00 per doz. J. W. Collesh, 53rd and
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IMPORTING HOUSES.

R. M. Ward & Co., New York.

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INSECTICIDES.

Hammond's Paint & S. S. Works, Flshkill,
N. Y.

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JAPANESE PLANTS.

Yokohama Nurseries, 31 Barclay St., N. Y.
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KENTIAS.

Hinode Florist Co., Inc., Whitestone, L. I.,
N. Y.

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Belmoreana and Forsteriana.

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LANDSCAPE ARTIST.

William Plumb, 1133 Broadway, New York.
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LEADING RETAIL FLORISTS.

Alex. McConnell, New York.

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Thomas Young, Jr., New York.

For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.

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George H. Cooke, Washington, D. C.

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LEADING RETAIL FLORISTS—Continued.

Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

MASTICA.

F. O. Pierce Co., 170 Fulton St., New York.
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MOONVINES.

Godfrey Aschmann, 1012 Ontario St., Phila.
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MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co., 911 Chemical Bldg., St. Louis, Mo.
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NARCISSUS.

Poat Bros., Ettrick, Va.
For Forcing.
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NURSERY STOCK.

John Waterer & Sons, Ltd., American Nursery, Bagshot, England.
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ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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PALMS.

A. Leuthy & Co., Roslindale, Mass.
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PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.

PEONIES.

The Cottage Gardens Co., Queens, N. Y.
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George Hollis, S. Weymouth, Mass.
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J. F. Rosenfield, West Point, Neb.
Fine collection of Best Peonies. Complete Peony and Phlox Manuals, 25 cents each. C. S. Harrison's Select Nursery, York, Nebr.

PIPE FITTINGS.

Pipe, Valves and Fittings, Cuyler & Mohler, Baltimore, Md. Manufacturers' prices, F. O. B. your railroad station. Immediate shipment. Try us.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Primula Obs. Grandiflora. 4 in. pots. \$6 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

PUTTY.

Benj. Hammond, Fishkill on Hudson, N. Y. Twemlow's Old English Glazing Putty.
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RHODODENDRONS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pye, Upper Nyack, N. Y.
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Rose Hill Nurseries, New Rochelle, N. Y.
Roses, Killarney.
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John C. Hatcher, Amsterdam, N. Y.
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American Beauties, 2 in., \$55.00; 3 in., \$80.00 1000. Cash. J. Henry Bartram, Lansdowne, Pa.

Roses. Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1-2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

Roses. Richmond, 2 1-4 in., \$7.00 100; \$45.00 1000. Chateau, La Detroit, Perle, 2 1-2 in., \$3.50 100; cash. W. J. & M. S. Vesey, Fort Wayne, Ind.

2 1-2 in. pots, ready now. Baby Ramblers, Teas, H. P. Roses, 50 varieties, at \$30.00 1000; Crimson Ramblers, \$25.00 1000; Baltimore Belle, Dorothy Perkins, Pink, White and Yellow Ramblers, Queen of Prairie, Seven Sisters, etc., at \$20.00 1000. Gilbert Costich, Rochester, N. Y.

SALVIAS.

Salvias, 4 inch, \$6 per 100. A. F. Belcher, Foxboro, Mass.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass.
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Joseph Breck & Sons, 51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co., 36 Cortlandt St., New York.
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H. F. Michell Co., 1018 Market St., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
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A. T. Boddington, 342 W. 14th St., N. Y.
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James Vick's Sons, Rochester, N. Y.
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G. C. Watson, Dobson Bldg., 9th and Market Sts., Phila.
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Conrad Appel, Darmstadt, Germany. Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O.
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STEAM TRAP.

E. Hippard, Youngstown, O.
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SWEET POTATO PLANTS.

FOR SALE—100 M. sweet potato sprouts, extra fine; 500 M. cabbage plants, several varieties, all \$1.00 per M.; \$8.00 per 10 M. Orders filled same day received. W. F. Allen, Salisbury, Maryland.

VEGETABLE PLANTS.

Plainfield Nursery, Plainfield, Ind.
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VENTILATING APPARATUS.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
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Weathered Co., 46 and 48 Marion St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.

J. C. Moninger Co., 421 Hawthorne Ave., Chicago

VIOLETS.

H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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VIOLETS—Continued.

William Sim, Cliftondale, Mass.
Princess of Wales.
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WEED KILLER.
Fairmount Chemical Co., Broad & Fairmount Aves., Philadelphia.
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American Horticultural Distributing Co., Martinsburg, W. Va.
Target Brand Weed Killer.
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WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

N. F. McCarthy & Co., 84 Hawley St., Boston.
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George A. Sutherland Co., 34 Hawley St., Boston.
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Welch Bros., 15 Province St., Boston.
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Buffalo.

Wm. F. Kasting, 383-87 Ellicott St., Buffalo, N. Y.
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Chicago.

J. A. Budlong, 37 Randolph St., Chicago.
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E. H. Hunt, 76-78 Wabash Ave., Chicago.
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Chas. W. McKellar, 51 Wabash Ave., Chicago.
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Peter Reinberg, 51 Wabash Ave., Chicago.
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Vaughan & Sperry, 60 Wabash Ave., Chicago.
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Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

Detroit.

Michigan Cut Flower Exchange, 38 & 40 Miami Av. Wm. Dilger, mgr.
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New York.

Wm. Stuart Allen Co., 53 W. 28th St., New York.
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J. S. Fenrich, 110 W. 28th St., New York.
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Ford Bros., 48 West 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 West 28th St.
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E. C. Horan, 55 West 28th St., New York.
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Philip F. Kessler, 55 W. 26th St., New York.
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Julius Lang, 53 West 30th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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Frank Millang, 55-57 W. 26th St., New York.
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A. Moltz, 55-57 W. 26th St., New York.
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John J. Perkins & Son, 115 W. 30th St., New York.
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John I. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Traendly & Schenck, 44 W. 28th St., New York.
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Hicks & Crawbuck, Inc., 76 and 78 Court St., Brooklyn, N. Y.
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WHOLESALE FLORISTS—Continued.
Philadelphia.

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.

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Leo Nissen Co., 1217 Arch St., Philadelphia, Pa.

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S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.

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Edward Reid, 1526 Ransstead St., Philadelphia, Pa.

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Pittsburg.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.

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Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.

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New Offers in This Issue.**CHRISTMAS FLOWERING SWEET PEA SEED.**

Ant. C. Zvolanek, Bound Brook, N. J.

For page see List of Advertisers.

COLEUS.

R. L. Goinsaloes, Kiddler Greenhouses, Waltham, Mass.

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FERNS FOR FERN DISHES.

W. W. Edgar Co., Waverley, Mass.

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TARGET BRAND WEED KILLER.

American Horticultural Distg. Co., Martinsburg, W. Va.

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GREENHOUSES BUILDING AND PROJECTED.

Fitchburg, Mass.—E. F. Lowe, one house.

Tewksbury, Mass.—George Foster, one house.

Mt. Vernon, Ia.—C. L. Meek, one house, 80x140.

Moline, Ill.—W. H. F. Knees, one house 27x110.

Athol Center, Mass.—J. W. Hayden, one house, 30x200.

Virden, Ill.—J. W. Garner, one house 10x80, one house 17x80.

Sioux Falls, S. D.—J. Tosini, two houses 16x80, four houses 20x61.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 2 1/4 " " " 5.25	60 8 " " " 3.00
1500 2 1/2 " " " 6.00	
1000 3 " " " 5.00	48 9 in. pots in crate \$3.60
800 3 1/2 " " " 5.80	48 10 " " " 4.80
500 4 " " " 4.50	24 11 " " " 3.60
320 5 " " " 4.51	24 12 " " " 4.80
244 6 " " " .16	12 14 " " " 4.80
	6 16 " " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

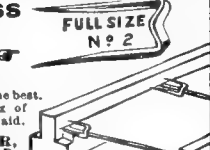
Standard Flower.. POTs

If your greenhouses are within 500 miles of the Capital write us, we can save you money

W. H. ERNEST,

14 M Streets, WASHINGTON, D. C.

Holds Glass Firmly
See the Point **PEERLESS**
Glazing Points are the best. No rights or 10% off. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.


CUT FLOWER MARKET REPORTS.

(Continued from page 799)

Trade keeps right
COLUMBUS along good. There have been an unusual

number of large weddings, and this, together with school closings and commencements, etc., has kept things lively. Stock of all kinds is ample; roses are beginning to get small and poor. Carnations are still of very good quality, but in enormous supply. Peonies are about gone, and they have had a better run than ever before. We understand that many of the growers will plant very largely with the better varieties this fall; there certainly is an unsatisfied market here for them. Green goods are coming better than for some time. The seedsmen are still quite busy with the end of the bedding plant season, and what seasonable seeds are now in demand. Everyone in the craft is happy as the season about to end has been most prosperous for all.

The demand is brisk

CINCINNATI and business continues fairly good,

but the supply of cut flowers has suddenly let up until it is next to impossible to get enough stock to do business with. What little there is shows a slight improvement in quality, due to the cool weather. In consequence prices have advanced somewhat on everything that is saleable. Lilies are about played out and will be scarce for several weeks. The only thing you can make sure of getting is roses, carnations and lily of the valley. We have been favored with frequent rains this spring, and the out-door supply of summer flowers gives promise of a good crop.

The conditions of

LOUISVILLE business the previous week averaged

fair. Carnations and roses have been satisfactory in quality and demand. Lilies and sweet peas are abundant and move readily. There is little call for lily of the valley. Other stock is in good supply and finds a steady demand.

Business is rapidly

NEW YORK whittling down to summer desuetude. Most

of the stock coming in is very poor and the beginning of the end of the heavy avalanche is in sight. Receipts are falling off rapidly. Peonies are about finished. Prices rule low on everything except a few lines of very fancy grade material.

There was some

PHILADELPHIA improvement in the volume of

business the past week and present conditions are as good as can be expected. The congested condition of the carnation market was greatly abated. Beauties and Libertys were in good demand, but only fair as to quality. Lily of the valley was in good demand and on the scarce side. Plenty of cattleyas, demand liberal and steady. Sweet peas fair as to quality and find ready sale. Cold storage peony supply is good for some weeks yet. Lilies, white iris, lupins, swainsona and cornflowers are plentiful. Greens in good supply and steady.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

GOOD OPPORTUNITY

ENERGETIC YOUNG, MAN with thorough Ornamental Nursery training, including hardy herbaceous plants, may find it to his advantage to correspond with us. Permanent position to right party. State experience, references and salary expected. Position now open.

The ELM CITY NURSERY CO.
NEW HAVEN, CONN.

SALE BY AUCTION

June 30th, five greenhouses, dwelling, 25 acres land, crops, tools, etc., in lots to suit purchasers. Riverside Greenhouses, Gardner, Mass.

FOR SALE—Five greenhouses containing 5000 feet of glass. Hot water heat. Town water. One acre of land. 10 minutes walk from depot, 1 minute from electric. Near churches, stores and schools. For particulars write

A. F. BELCHER, Foxboro, Mass.

SALESMAN WANTED To introduce a line of irrigating and sprinkling outfits for greenhouses and outdoor use; a proven success. Bennett Bros. Co., Lowell, Mass.

WANTED Situation as foreman on good commercial place. A good grower of Gardenias, Lorraines, Amaryllis, Roses and Carnations. Twenty years' experience. Address Foreman, care **HORTICULTURE**, 11 Hamilton Place, Boston

WANTED—An experienced shipping clerk, acquainted with the bulb business and capable of making trade for the house. Wages \$25 a week to the right party. Address B. B., care **HORTICULTURE**.

WANTED—A travelling man to represent a large importing house. Only those with a thorough knowledge of the wholesale seed, bulb and plant trade need apply. Address R. D., care **HORTICULTURE**.

WANTED—Position by a competent gardener, capable of taking charge of a first-class private place. European and American experience in commercial gardening, public parks, and nurseries. Address, T., care **HORTICULTURE**, Boston

WANTED—A good position for a first-class man. Address Ferns, care **HORTICULTURE**, 11 Hamilton Place, Boston.

WANTED—A few specimen plants of *Polypodium, Anemum*. William W. Edgar Co., Waverley, Mass.





REG. U. S. PAT. OFF.

TARGET BRAND WEED KILLER

A most valuable formula for disposing of weeds. Positively effective.

RESULTS GUARANTEED

One application will last almost an entire season. Order a trial gallon, which makes 50 gallons treating liquid.

Price, \$1.00 per gallon can; \$4.00 per 5 gallon can; \$7.50 per 10 gallon can; \$35.00 per 50 gallon barrel.

...MADE ONLY BY...

AMERICAN HORTICULTURAL DISTRIBUTING CO., Martinsburg, W. Va.

Dept. B.

Manufacturers of HORTICULTURAL INSECTICIDES
 WRITE for complete catalogue


REG. U. S. PAT. OFF.

LET IT STRIKE
YOU

★

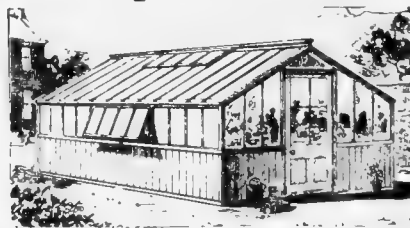
FOLEY MFG. CO.
471 W. 22ND ST. CHICAGO.

GREENHOUSE MATERIAL

OF ALL KINDS
HOT-BED SASH VENTILATING APPARATUS
SEND FOR FREE ILLUSTRATED
CATALOGUE

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.

FOLEY MANUFACTURING CO.,
471 W. 22d Street, Chicago



"Built the Premier Way"

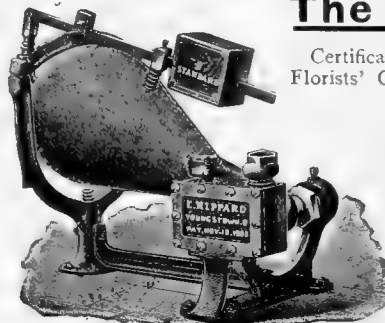
Greenhouse Reasons

"To be profitable they should be practical — to impart a nice appearance to your residence they should be artistic — while as you sometimes want to move them they should be portable.

"You will find all these points — and a lot more in Premier Houses. There is sense all the way through. There is experience behind us — that's a reason. Get booklet No. 48.

Chas. H. Manley

Premier Works, St. Johns, Mich.



The Standard Steam Trap

Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

E. HIPPARD, Youngstown, Ohio

STANDARD PLATE GLASS CO.

Manufacturers, Importers and Jobbers
 AMERICAN AND FRENCH GREENHOUSE GLASS

 26-30 Sudbury Street
 61-63 Portland Street

BOSTON, MASS.

MASTICA

(PATENTED)

For Glazing Greenhouses

Manufactured only by

F. O. PIERCE COMPANY

170 Fulton Street, New York

 Agencies in all the Principal Cities
 of the United States and Canada.

WRITE FOR CIRCULAR

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active practice. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS

PATENT LAWYERS

 Box 9, National Union Building
 Washington, D. C.

TO BUYERS

Patronize our advertisers, they will treat you right

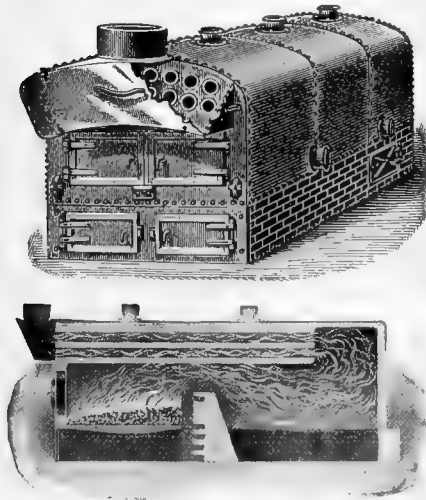
Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

35 Erie Street, CHICAGO.



Boilers made of the best material: shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

**BOSTON PLATE & WINDOW GLASS CO.****GREENHOUSE GLASS**

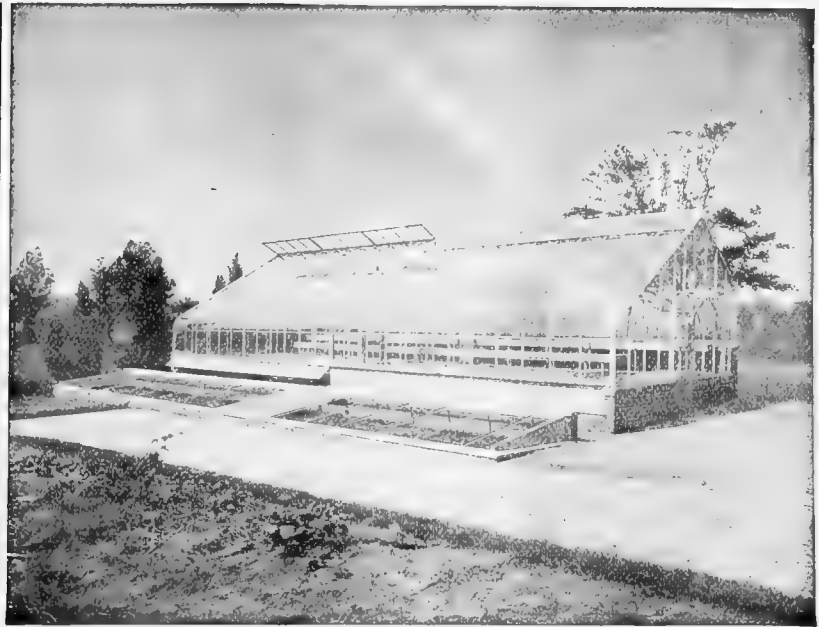
German and American

261 to 287 A St., BOSTON 20-22 Canal St.

GREENHOUSE CONSTRUCTION LUMBER**John C. Moninger Co.**

117 E. Blackhawk St., CHICAGO

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.**TAKE THIS 3-4 SPAN HOUSE**

You can get a good idea of how the curved eave line and airiness of construction makes the heretofore ugly, almost impossible $\frac{3}{4}$ span house one of attractiveness—one that will fit in almost any place on your grounds.

U-BAR GREENHOUSES

Are the Best Greenhouses Built

because no other greenhouse has the curved eaves—the lightness of construction, giving a house not only unequalled in attractiveness, but excelling in growing qualities.

WE ARE THE SOLE MAKERS OF
U-BAR GREENHOUSES

PIERSON U-BAR COMPANY

Designers and Builders

U-BAR GREENHOUSES

Metropolitan Bldg., 4th Ave. and 23rd St.
NEW YORK

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE. 74 FRANKLIN ST. BOSTON

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL.

WEATHERED COMPANY

46 MARION ST., NEW YORK

GREENHOUSE BUILDING AND HEATING

Send for Catalogue.

SEND FOR CATALOGUE OF
SCOLLAY HOT WATER
and STEAM BOILERS

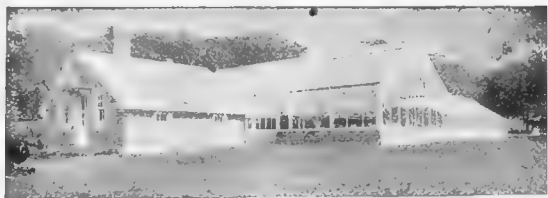
JOHN A. SCOLLAY

73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

TO BUYERS

Patronize our advertisers, they will treat you right

H AND C



The Reliability

of a concern means something—it means you don't have to watch every little detail for fear they are "cutting corners"—it means that you get the right thing at a right price—a feeling of confidence, surety. We have a reputation for giving the square deal, and we live up to our reputation.

HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.

Manufacturers of Heating and Ventilating Apparatus.

1170 Broadway, NEW YORK.

H AND C



SOME WANT A THREE COMPARTMENT GREENHOUSE

So here's about as attractive, snug a proposition as can be built. It is 75 feet long, with each compartment 25 feet. You see how absolutely charming the whole layout is—how it just fits its place in the garden. We have the knack of making our houses look this way—and making them last half a century or so.

Lord & Burnham Co.

**GREENHOUSE DESIGNERS
and MANUFACTURERS**

1133 BROADWAY, cor. 26th Street, N. Y.

Boston Branch: 819 Tremont Building

But above all things
they are practicable—
built to grow plants—
and grow the best
plants grown.

Send for Catalog J-P.



ECONOMY DICTATES FAIRMOUNT WEED KILLER

**You Cannot Hoe Out Weeds or Grass
for Twice the Cost**

1-2 gal.	makes 25 gal.	treating liquid,	Cost, \$0.75
1	"	50	" " " 1.25
5	"	250	" " " 6.00
10	"	500	" " " 11.00
50	"	2500	" " " 45.00

Less than 2c. gal. to put on

GET THE FAIRMOUNT

First in the Field—Still First in Merit

"Eleven Years of Success"

"Imitations are not Cheap"

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Henry F. Michell Co., Phila.

Henry A. Dreer, Inc., Phila.

Griffith & Turner Co., Baltimore, Md.

J. Chas. McCullough, Cincinnati, O.

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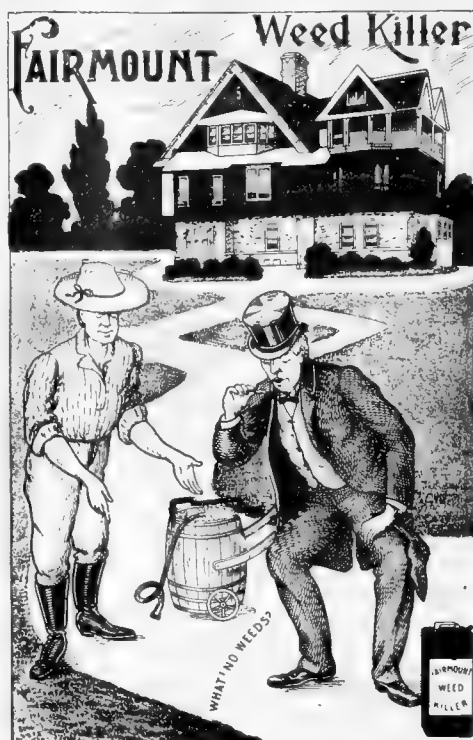
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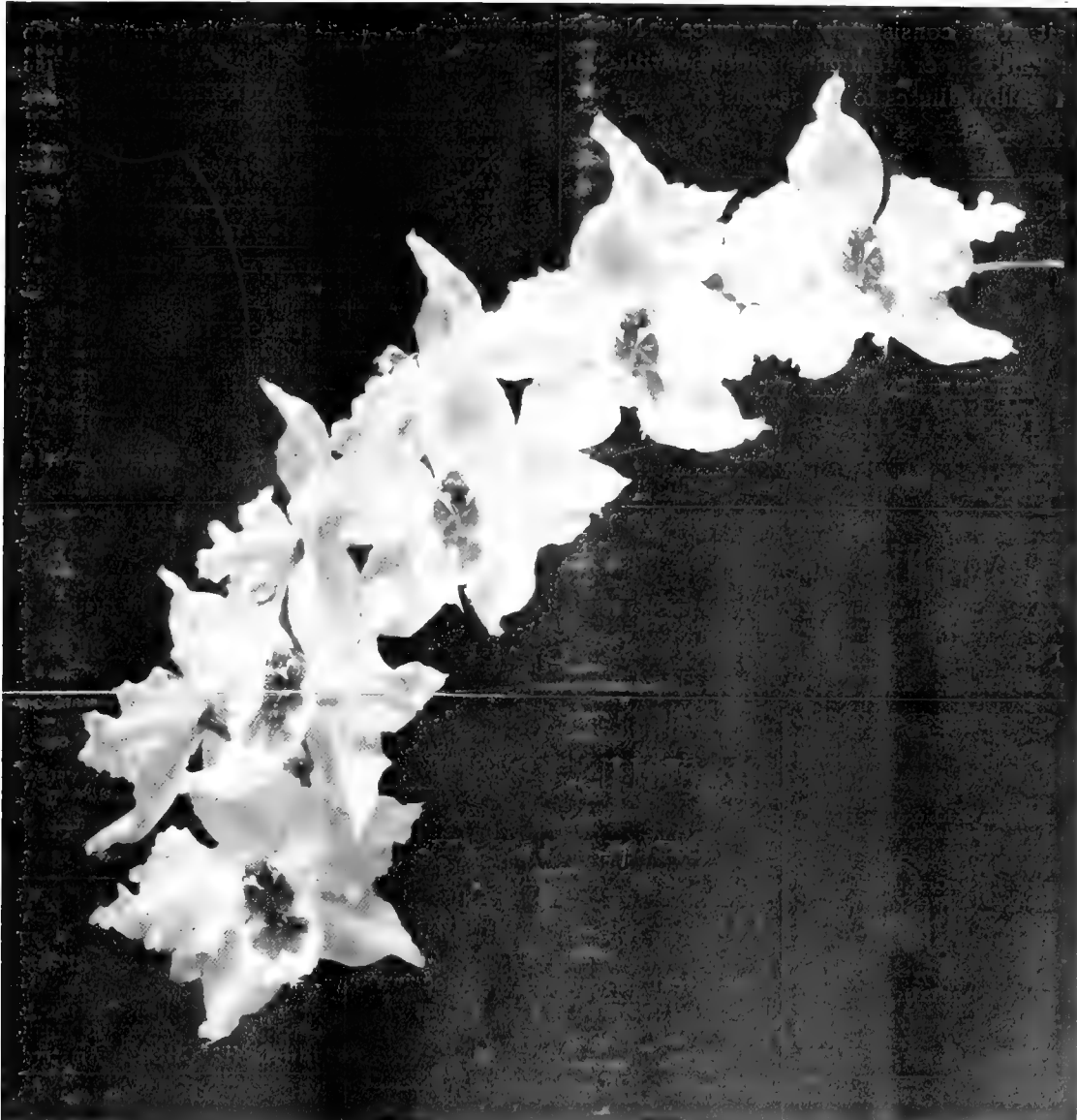


HORTICULTURE

Vol. III.

JUNE 30, 1906

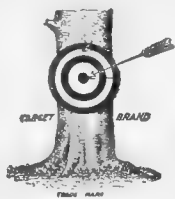
No. 26



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HORTICULTURE

VOL III

JUNE 30, 1906

NO. 26

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Chionanthus virginicus

THE WHITE FRINGE



This is a native shrub of great beauty and one that should be planted wherever it is found to be hardy. As will be seen from the accompanying illustration, the flowers are borne on loose panicles, from lateral buds at the end of the previous season's growth. The petals of the flowers are divided almost to the base and thus have popular name of white fringe. It usually flowers during the months of May and June and the flowers have a pleasing fragrance. The leaves are dark green and when even not in flower it is quite an attractive shrub; it is of rather slow growth but thrives in any good garden soil.

W. H. Waite

Bernardsville, N. J.

Two Injurious Grape Insects

GARTERED PLUME MOTH

Several times this season I have had my attention called to the work of the gartered plume moth (*Oxyptilus periscelidactylus*), which has done considerable damage to the grape foliage. The caterpillars are nearly all pupating now (June 16) and as there is but one brood a year no further damage need be feared this year, but there is danger of a repetition another season.

The larvæ hatch when the early foliage appears and are greenish white caterpillars, one-half inch long when

mature, covered with tufts of white hairs which give them a furry appearance. The head is yellowish green with a band of black across the front.

On hatching each one folds a leaf over or fastens two or three together with silken threads. Inside this protected place the caterpillar feeds, skeletonizing the leaf. When through feeding—about the middle of June—the larva spins a few silk threads and fastens his hind feet in them. Then he sheds his coat and becomes the curious green pupa, one-half inch long, with two projecting shields in front, the whole resembling a monk dressed in a long green cloak. Later the color turns brown.

These pupæ give rise in about eight days to a yellowish brown moth marked with streaks, lines, and spots of white and having a metallic lustre. The fore-wings are cleft about one-half their length. The hind ones are each divided into three parts, but instead of having the ordinary wing texture they are feathery-like plumes, from which the moth derives the name, "plume moth." The wing expanse is about seven-tenths of an inch. The hind legs are furnished with two pairs of long spurs or spines arising from clusters of brown scales, which give the moth the "gartered" appearance. These moths lay the eggs for the next brood.

Where the vines are sprayed early with a stomach poison no trouble need be feared, but if no spraying is done and they appear in large numbers they will be too well protected for a poison to reach them and crushing or picking infested leaves must be resorted to, care being taken that the lively caterpillar doesn't slip out and escape.

EIGHT-SPOTTED FORESTER

Another insect that is doing a lot of damage is the eight-spotted forester (*Alypia octomaculata*). It is a conspicuous insect easily identified by the spots from which it takes its name. The Boston ivy and Virginia creeper suffer severely every year from this insect and in fact it attacks many ornamental shrubs and trees, being common over the greater part of the United States and Canada, especially in town or city gardens.

The moth is five-eighths inch long with a wing expanse of about one and one-fourth inches. Its prevailing color is brilliant blue black. Each forewing is marked with two large, more or less oval, pale yellow spots, and each hind wing is also marked with two spots but they are more nearly round and are white in color. The shoulder covers are yellow and a yellow band encircles the head. The legs are partly clothed with orange hairs. There are two broods a year, the moths flying in May and August and the caterpillars appearing soon afterwards.

The eggs give rise to pale bluish caterpillars very prettily marked with orange and black. Each segment has eight black stripes and an orange band covered with black conical spots, the orange being bounded by the two middle black lines. They are about an inch and a half long when mature. After they are done feeding they bore into rotten wood, or burrow into the ground and form a cell of earth. Here they pupate coming forth as moths in a few days.

When they are troublesome spraying will check them, using arsenate of lead five pounds to one hundred gallons of water, bollworm one ounce to two gallons or Paris green one teaspoonful to two gallons of water.

R. J. Adams

Cool Orchids

See Frontispiece.

High up on the Andes in Colombia, just below the frost line, forming a belt that does not descend lower than 6,000 feet elevation is a tract of territory which has become the most diligently searched of any in South America because of its floral wealth, and the ever increasing demand for the orchid gems that are found there. It was at one time possible for a collector to obtain with comparative ease all the plants that could be taken down the river on the small steamers that ply there, but of recent years the increasing demand and the destruction of their native forests for the purpose of coffee culture has made it difficult to obtain these fine plants. In spite of the many days' journey on mule back necessary now to reach the present "districts" where the plants still remain, collectors are still at work gathering up all they can for export, principally to London, where they bring high prices even as dried scraps that might be easily put in a vest pocket. The species most sought for is *Odontoglossum crispum*, and for this there are several reasons; a graceful arching spray of this orchid is perhaps the most beautiful flower created; certain it is that hundreds of cultivators think so. Then again there were never two plants imported that proved alike when they flowered; if one buys 1,000 he is sure of just that many distinct varieties. Some are, of course, inferior, but the gems that crop up among them are priceless. One amateur cultivator in England has a small house that contains \$50,000 worth of these rare forms of *odontoglossum*. The length of time the flowers last in perfection, varying from a month to six weeks according to the weather, is a point worthy of remark, and, if it is stated that very little artificial heat suffices, even less than a carnation needs, to grow them to perfection it is not strange that of recent years the *odontoglossum* has come to the front rapidly as the most popular orchid for the grower who takes an interest, a personal one, in the plants he cultivates, for the atmosphere of the house is always kept congenial. The temperature in hot weather even in the United States can be so regulated on the hottest days that it is at least 20 degrees lower than in the shade outdoors. This is vastly different from the steaming hot interior of orchid houses that accommodate the plants from the East Indies, Philippines, Brazil and other parts of tropical America.

For many years *Odontoglossum crispum* was known among cultivators as *O. Alexandræ*. Its first flowering in England was coincident with the arrival there of the beautiful princess, the present Queen, the variety so named being considered different from the dried botanical specimen previously named *O. crispum*; later, however, the wonderful variation in individuals was apparent, and the older name adopted, but it has taken a generation to live down this trifling error, though sentiment has perhaps been largely responsible for this tenacity. There have been very few collections of cool orchids brought together in this country, largely because growers were afraid of the hot weather in summer, but there have been striking exceptions, for instance, the well-known Ames collection at North Easton, Mass., and that of the late Mr. Corning at Albany, N. Y. This last when dispersed was in fine health, many of the plants being large specimens of wonderful vigor. It was thus seen that with proper care and a suitable house to summer them in, there are no difficulties that could not be overcome, and

many smaller attempts have followed usually with good results.

The beginner, however, soon finds that all of the literature bearing on this subject applies to the conditions that obtain in England and his success depends on the ease with which he can apply the two great factors that make for success, plenty of air and a moderate temperature, and ignore the mass of useless detail, the slavish imitation of which for about ten years nearly killed the whole of our plants, but under a more rational system, during the past few years the plants have in many instances trebled in size and we know there is no secret about it.

Odontoglossums when received from their native woods are devoid of leaves; they are a cluster of bulbs just as torn off the trees; these take about two years to bring them to the flowering stage, but the buds are all taken off except one that the effort may not be too much for the newly established plants. One bloom is enough to prove the variety for the grower will find that after two years of waiting he is quite anxious to see how many prizes there are among his lottery. We are proving quite a number in this way this season, and while the pleasure is sometimes largely in the anticipation, this particular importation seems to have been gathered in what is known as a "good district." for there are selections where none but inferior forms are found, but no one can distinguish between them until they bloom. The structure used to summer the plants is constructed on the north side of the building the roof sloping down to within 16 inches of the ground there being just height enough to admit of three ventilators such as are used for cellar windows; these allow of a current of air through under the plants in hot weather. Roller shades are used on the roof elevated well above the glass to allow of a free current of air between and also that the warm air may escape through the top ventilators.

Odontoglossums may be had in flower during the whole year, but the most of them are to be had from April through June. The plants take a rest through the summer and begin to grow again in fall. The whole of them are then taken up out of their summer quarters and placed in a light airy structure for the winter where they receive all the sunshine possible for the midwinter months to enable a vigorous growth and strong flower shoots to be formed. At the end of March all are again put into the "cool house" for summer. The popular taste at present favors the spotted varieties; the heavier the spots or blotches are, the greater the prize. The beautiful pearl pink varieties were once the most sought after until they became common, but these are still the most beautiful and the airy grace of their arching sprays is such that they lend themselves kindly to all forms of decoration, can be enjoyed long in perfection, and in only one respect do they fall short, that they are not fragrant; this should not be considered a fault, however, for very fragrant flowers are almost always short lived. There are exceptions of course but in a general way the theory holds pretty well. Cool orchids insist on a cool pure air at all times, but the only real difficulty experienced in their culture is during the dog day weather when the atmosphere becomes stagnated in the partly underground house, with the temperature high also. We find this can easily be obviated by the use of a spray or jet of cold water directed through the center walk with good pressure behind it; this keeps the air circulated and the foliage of the plants gently moving, the amount of water used being trifling compared with the good accomplished, as

it is only needed on hottest days and in this way the difference between the temperature in the cool house is often 25 degrees less than outside.

The roller shades are made to roll from the bottom up so that at midday only half of the structure needs shading, the building screening the upper part, and light is not obstructed wholly except in early morning as the house runs east and west.



British Horticulture

HONORING HORTICULTURISTS

A fund is being raised for the purpose of raising a memorial to the late F. W. Burbidge, M. A., curator of the Trinity College Botanic Gardens, Dublin. It is proposed that this should take the form of a Memorial Library, for the use of the members of the Irish Gardeners' Association, over which the late Mr. Burbidge so successfully presided. Another project which is receiving the support of leading horticulturists is the proposal to raise a memorial to the late Rev. H. Honeywood D'Ombraim, founder of the National Rose Society, and from 1876 to 1902 its senior Honorary Secretary. Mr. Edward Mawley is acting as Honorary Secretary and Mr. H. E. Molyneux Honorary Treasurer to the fund. The National Rose Society was founded in 1876 at a meeting of rosarians over which the late Dean Hole rendered such a lasting service to the "Queen of flowers" by his Book about Roses which has been issued in various editions and translated into several foreign languages. For over half a century the late Mr. D'Ombraim was a regular contributor to horticultural literature. It is proposed by the committee that the memorial shall take the form of a trophy to be known as the D'Ombraim memorial cup which will be competed for at the shows of the National Rose Society.

AN INTERNATIONAL CONFERENCE

In recent years very successful international conferences on plant breeding have been held. In 1899 one took place in London under the auspices of the Royal Horticultural Society, and a second in New York, arranged by the Horticultural Society of New York, in 1902. A third has now been fixed to take place in London, commencing on July 30 and concluding on Aug. 3. The Royal Horticultural Society, who are making the arrangements, have issued a large number of invitations to hybridizing specialists in various parts of the world, and already many acceptances have been received from the United States, Canada, France, Belgium, Australia, etc. The proceedings, according to present arrangements, will open with a *conversazione* on July 30th in the Royal Horticultural Hall at Westminster, where an address of welcome will be delivered by Sir Trevor Lawrence, Bart., the President of the Royal Horticultural Society. The conference opens on the following morning with an address from Mr. W. Bateson, F. R. S., president of the conference. In the evening the visitors will be the guests of the Horticultural Club at the Hotel Windsor. On Aug. 1st the visitors will be entertained at Burford, near Box Hill, Donking, the residence of Sir Trevor Lawrence. Here they will be able to inspect the president's very valu-

able collection of orchids, one of the finest in the country. The arrangements on the concluding day include visits to the Natural History Museum, the gardens at Gunnersburg, Acton, the residence of Mr. Leopold de Rothschild. Every effort is being made by the council of the Royal Horticultural Society to make the visit of the foreign savants a pleasant and memorable one.

THE WINTER FLOWERING CARNATION SOCIETY

One of the incidents of the Temple flower show week was the inaugural dinner and meeting of the Winter Flowering Carnation Society. This new organization, which has been launched under very favorable conditions, owes its inception to Mr. Hayward Mathias, who is an enthusiastic believer in the merits of this increasingly popular flower. The meeting presided over by J. S. Brunton of the Horticultural Trades Journal, was attended by some of the leading growers in England and the Channel Islands. The rules which were discussed and passed, state that the object of the society are the extension of the culture and the improvement of the winter flowering carnation. At the outset there was some difference of opinion as to the choice of a title, several of the members desiring to include the words "perpetual flowering" as being a more suitable description. In giving the history of the society's formation, Mr. Mathias emphasized the fact that it had been started in no antagonism to the National Carnation Society. The latter society would continue to work in the interest of the summer section, and as the shows would be held at different times of the year the two organizations would not clash in any way. To show the friendly attitude assumed by Mr. Mathias it may be mentioned that prior to taking steps to inaugurate the new society he approached the committee of the older association, but they declined to undertake the additional responsibility of holding a winter show. There should be plenty of scope for both societies to work in the interests of carnation growers.

The society will be open to trade growers and amateurs, and the minimum annual subscriptions will be 5s. A floral committee of experts is to be appointed who will award certificates to meritorious and truly winter flowering varieties. One or more exhibitions will be held annually, the chief show being fixed for December. The committee are to discuss whether the shows should take place at the Royal Horticultural Hall or at the Royal Botanic Society's gardens. A suggestion was made that classes should be arranged for bouquets and table decorations in order to show the usefulness of the carnation for this purpose. One member was very anxious that the American plan of holding a "Carnation Day" should be followed in Britain, and there is no doubt that this idea will receive the full consideration of the committee, the majority of whom as trade growers are anxious to see the flower attain to still greater popularity. Mr. Brunton was elected chairman, Mr. S. Mortimer, vice-chairman, and Mr. Hayward Mathias honorable secretary and treasurer. There is every prospect that the society will protect the interests of the trade growers, besides extending the popularity of the carnation among the public. There is no better means of achieving the latter object than by holding a show on the lines suggested at the meeting.



HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager.

operations for the coming year. See to it that there is no idle space and that unprofitable methods, if such exist, are abandoned.

The store window
in summer

We should like to suggest to the florist who has been in the habit of slighting his show window or conservatory during the dull

weeks of summer that he try the experiment of maintaining a neat, attractive, but not necessarily expensive, display all through the slack period. One clean, healthy plant, one vase or dish of fresh flowers of any kind, if the surroundings are tidy, is infinitely better than a window full of old trumpery that will not be needed until next season. "It doesn't pay" is a very bad maxim when applied to cleaning up. An always dainty flower window and orderly office cannot fail to attract the attention of the people who make desirable patrons and its owner will not be forgotten when the busy times return. An insistence upon these principles will also serve to keep the help from lapsing into that listless languor which is seen to prevail in so many places during the summer season and which, when it once gets a good hold, is so hard to shake off, even when a windfall comes in the shape of an order.

About
formal gardening

Some very good and instructive speeches were made at the sessions of the park superintendents in Washington recently but they contained not one word in approval of the formal gardening fad. Instead the key note of everything that was said was the doctrine of fellowship with nature as the best motive in all park work. As a rule the less of artificiality displayed the more satisfying the pleasure to be drawn from a garden or park. A knowledge of trees and shrubs and their proper adaptation is one of the fundamentals in park construction. Compare the work of the man actuated by a refined appreciation and loving regard for these products of nature's handiwork with the strained mechanical effect produced by the most skilful builders of "Italian" gardens. We are sorry for him who sees more to admire in the latter. Much is made of the argument that a certain amount of formal treatment is required to harmonize and "break" the severity of architectural structures into the informal surroundings of rural scenery. In a measure this may be reasonable but it furnishes a very insufficient excuse for the aggregations of clipped deformities on which so many wealthy people, merely because it is a fad, are squandering their money. We shall be very much surprised if a reaction does not soon set in and circumstances make it discreet for the high priests of this unnatural school to turn back and learn the first principles of true gardening art.

The close of a
profitable year

With this issue HORTICULTURE closes its third volume. The many appreciative words, oral and written, which we have received, especially of late, from readers and advertisers are most encouraging and give pleasant assurance that HORTICULTURE is filling an acceptable and useful place in the uplifting and advancement of the noble profession whose interests it seeks to serve. The end of June brings also to most of our readers the practical closing of a volume—the ending of one season, and the midsummer respite which precedes the opening of another. From the observations which we have been privileged to make we believe that the season just closing may be recorded as a good and profitable one and in no department of horticultural industry is there reasonable cause for complaint as to results. We hope the next may be equally profitable for all.

Planning for
next season

It does not always follow that mere volume of business is a reliable gauge as to profit or loss. The men who come out at the end of the season with the biggest profit are the careful managers—those who think ahead and work on a well-matured plan. With the grower under glass no qualification counts for more than that of wise foresight so that every square foot of greenhouse space is kept at work 365 days in the year. Probably every one of our readers can call to mind instances where there is enough idle room in a greenhouse to pay, if properly handled, a good interest on the investment. Glass is different from the proprietor and his help in that it requires no vacation. Now, when one has time and opportunity to survey the past and tabulate its results, is the time to map out the

WHOLESOME CHESTNUTS.

Crotons need sunlight to bring out brilliant coloring, and so do dracaenas but the latter require more care and discrimination; bringing them into bright sunlight suddenly will burn the foliage.

Primulas and cinerarias, from the time the seed is sown until they are through flowering, need incessant care, careful watering, careful potting, and careful handling, and only when using good judgment and care in every particular will satisfactory results be obtained.

It is already time to think out the problem of what pays best for Christmas. Don't keep a lot of useless stuff around; push ahead the things most likely to be in general demand. In the case of a novelty say but little about it until pretty certain that it will amount to something; then will be the time to push it. Only by the widest publicity through the medium of the horticultural press after all, can any great number of interested persons be informed when you have stock enough raised to make something out of it. Last Christmas medium-sized plants were more in demand throughout the country than ever before. Lorraine Legonias were prime favorites; that is worth keeping in mind. There is a new *Nephrolepis* recently introduced that will be just the thing to satisfy customers in search of Christmas plants of pleasing form but of sombre hue. It will sell well in 5 in. or 6 in. pans and there is time enough to get them into those sizes before the holidays.

The fall of the year is the best time to plant peonies therefore select the varieties wanted and order early so as to get strong plants.

Now that some houses are empty or nearly so it is a convenient time to give the inside a thorough cleaning and one or more coats of good white paint.

Keep the hoe going among carnation plants; at the same time keep in mind the difference between hoeing and digging; too deep hoeing is apt to work injury while light hoeing is very beneficial, and the knack of doing it is easily acquired with practice.

Remember the flower show. Thou shalt go there, thou and thy man servant and thy maid servant, and thou shalt give them tickets of admission or the wherewithal to purchase the same. When in the exhibition hall if thou seest aught that pleases thee not, keep it to thyself, for thy neighbor hath feelings which thou shouldst not hurt, otherwise he may overhear thee and be angered and what wilt thou have for thy outspokenness? Remember that thou shouldst have no work done in the garden or in the greenhouse on the Sabbath Day except what is absolutely necessary thou, as well as all within thy gates, needst rest on the Sabbath day.

In the heat of summer ease up a bit on yourself and on those dependent on you more or less, remember that the best man is not he who rushes, on the approach of his employer; on the contrary such a fellow is usually worth the watching morning and night until pay day.

FOREIGN NOTES.

Among the numerous villas of Italy celebrated for their architectural beauty and the glory of their gardens, the Villa Borghese is by no means the least noteworthy. It was begun in 1618 and the gardens have been at different times enlarged in extent by various eminent landscape gardeners. Many American travelers have no doubt wandered through the place and know more of its history and attractiveness than can be put within the scope of a short newspaper article like this.

The chief object of these notes is simply to draw attention to a danger which threatens the very existence of the place for it appears that having been purchased by the municipality of Rome the Villa Borghese now forms a public park, and that there is some intention on the part of the Italian government to build the newly constituted International Institute of Agriculture on the spot, thereby seriously if not altogether affecting the ancient Villa Borghese and spoiling its adjacent gardens. Some correspondence has taken place in the local newspaper, and it is to be hoped that the protests may have the effect of sparing this historic building from twentieth century destruction, and that another site may be found for the contemplated building and museum that will form the headquarters of the new International Institute of Agriculture.

A grand volume on the art of garden design in Italy has just been published by Mr. Inigo Triggs. It is an immense folio in size and is got up in really handsome style, the printing and illustrations being executed in the very highest art. We must, however, defer our notice of it until the next contribution of "Library Notes."

C. HARMAN PAYNE.

OBITUARY.

Lyons' horticulture has suffered a severe loss by the death of M. Gabriel Chabanne. Chabanne was a thorough Frenchman and a gardener of European repute. He was attached to the Botanic Gardens in the Teted'or Park at Lyons, France; he jointly assisted Dr. Gerard in the editing of "*L'horticulture nouvelle*"; he was also an active member of the French National Chrysanthemum Society and joint author of a little work on the chrysanthemum with M. Choulet of the same city. He was secretary of the Lyons' Horticultural Society which he had done much to render prosperous, and his body was followed to the grave by a large number of his sorrowing townfolk with whom Chabanne was a great favorite. He was only 44 years of age and one of those energetic, useful men the world can ill afford to lose.

"Horticulture Is the Best Medium."

Editor HORTICULTURE:

We must discontinue our large advertisement this week in order to catch up with the orders we have received since its first insertion. We find that HORTICULTURE is the best medium for advertising that we have ever had.

Mass. H. H. BARROWS & SON.

Enclosed find a crisp dollar bill to pay for HORTICULTURE. I enjoy it very much and wish you success in every way
M. L.

HARDY PLANT NOTES.

Catalpas are, just at this period of the year, subject to the attack of a long black worm that attacks the leaves and quickly chews them up. The best remedy is to spray with the following solution: Three pounds of blue stone; three pounds of lime; four ounces of paris green mixed with fifty gallons of water. It will kill them in fifteen or twenty minutes.

Shrubby groups are made pretty at this period by the bright red flower of *Spiraea bumalda* Anthony Waterer. This variety is far superior to the species *bumalda*, and the latter will likely be propagated only on a small scale when Anthony Waterer is better known.

The best golden arbor vitae is Geo. Peabody, yet *Vervaeana* is more graceful in outline and has a yellow variation through the foliage that is very pretty. Some claim the latter will stand a more severe location. At this period the Geo. Peabody looks exceptionally pretty.

An evergreen that will be more largely planted when better known is Douglas' weeping spruce. It has a slight tinge of blue that is very pretty.

The evening primroses are just coming into flower and Youngii can be termed the best of all. There is an unusually large and showy one—*Missouriensis*—that has flowers three and four inches across.

Though hardy white and pink varieties of perennial hibiscus are abundant it has seemed impossible to get a hardy red or scarlet one. An excellent scarlet strain has now been raised that has flowers as large as any of the other types. It was secured by crossing *coccinea* with a hardy type and represents a number of years of hard work. It will be exhibited at the Jamestown Exposition in 1907, for the first time.

The pretty little light-foliaged *Veronica candida* is now in bloom. It is an excellent blue-flowering plant for border planting or edging.

In addition to the new hybrid *Wichuraiana* Roses mentioned in a recent issue, special note should be made of the varieties Alberic Barbier and Rene Andre. Alberic Barbier is a double of a creamy white color and comes out in a lovely bud form. The foliage is evergreen and exceptionally fine. Rene Andre is quite similar in form and foliage and has a very pretty flesh pink flower, double.

WARREN J. CHANDLER.

A PEONY LIST.

T. D. Hatfield's list of the best peonies, carefully selected from those on exhibition at the recent peony show, was as follows:

White or tinted white—Festiva Maxima, Jules Lebon, M. Dupont, Couronne d'Or, M. Emile Lemoine, Soliaterre, Mdme. Carlot, Mt. Blanc, Avalanche, Mrs. Winn Lewis.

Pink—Mdme. Geissler, Marguerite Gerard, Susanne Desert, Achille, Miss Brice, Venus, Therese, Zoe Calot, Asa Gray, Germaine Bigot, Charles Verdier, Halbid, Baroness Schroeder.

Dark colors—Felix Crousse, Adolphe Rosseau, Plutarch, Fortegat.

NEWS OF THE CLUBS AND SOCIETIES.

CHICAGO FLORISTS' CLUB.

The Chicago Florists' Club held their fifth annual outing at Higginbotham Woods on June 24. A derailed freight train caused an hour's delay in transit, but when the 225 picknickers reached the station James Hartshorne, of the Chicago Carnation Company, was waiting for them with plenty of hay racks to convey them to the grounds. Dinner was first in order, then the entertainment began as per schedule. In the ball game, E. E. Winterson, umpire, the Wholesalers beat the Retailers 19 to 15 in five innings. In the 50-yd. dash for married ladies no decision could be reached, and prizes were awarded to Mrs. L. H. Winterson, Mrs. McKee, Mrs. Chas. Balluff and Mrs. Weiman. The sack race was won by Julius Haskins, 1st; Jas. McKeand, 2d; 100-yd. dash, open to trade only, J. Haskins, 1st; A. E. Elling, 2d; 50-yds. for fat men, John Poehlmann, 1st; Geo. Heirle, 2d; running broad jump, trade only, Henry Koropp, 1st, 18 ft. 2 in., Mr. Hirsch, 2d, 16 ft. 11 1-2 in. An extra event was the Babies' race, in which the prize was carried off by little Beatrice Asmus.

Philip Foley, of the Foley Manufacturing Co., presented the prizes to the winners. Everybody returned feeling grateful to H. N. Higginbotham for the use of his grounds at Cherry Hill, and to the entertainment committee.

COLUMBUS FLORISTS' CLUB.

The regular meeting was held Tuesday evening in the club rooms at Iroquois Hall. Vice-president Curry was in the chair, and Secretary McKellar promptly on hand. The attendance was good, and every member present very enthusiastically interested in the work of the evening. After the regular business had been duly disposed of the important question of the evening was brought forward for settlement—"Shall we or not have a chrysanthemum show this fall?" After a long and most earnest discussion of the subject, from every point of view, in which Messrs. Reichert, Curry, Woodrow, Hills, Bauman, McKellar, Faxon, Wedemeyer and others took part, it was voted "that this club hold a public Chrysanthemum show in November next, all arrangements to be left to a managing committee that will be duly chosen." After this matter had been settled, some plans were proposed regarding prizes for the children's gardens but as the hour was late this was not acted upon. The next meeting will be Monday evening, July 2, when there will be a smoke talk and refreshments.

NEWPORT HORTICULTURAL SOCIETY.

President MacLellan has nominated for judges, at the Society's exhibition in August, Messrs. Bruce Butterson, Alexander Fraser and Stewart Ritchie. At a meeting of the executive committee these nominations were approved.

MASSACHUSETTS HORTICULTURAL SOCIETY.

Annual Rose and Strawberry Show.

This interesting event took place on June 22 and 23. There was a fair showing of roses in the H. P. classes but nothing really new or novel was in evidence and in the varieties shown the advancement, of any, over ten or even twenty years ago was very small. M. H. Walsh, for Miss Sarah B. Fay took most of the first prizes, including that for 24 varieties three of a kind, twelve varieties three of each, six varieties three of each, eighteen varieties one of each, six Brunners, six Druschki, six Sharman Crawford, six Margaret Dickson and general display of one hundred bottles. There were nine entries in the latter class. Mr. Walsh also took first for collection of H. T. roses, W. J. Clemson took first for twelve varieties of H. P.; Geo. F. Fabyan first for six varieties, Mrs. A. W. Blake first for six Rothschilds, Mrs. C. C. Converse and Mrs. Lester Leland first for six Laing, Dr. C. J. Weld first for six Jacqueminot. Other competitors winning honors in these classes were Wm. Whitman, estate of John C. Chaffin, Mrs. E. M. Gill, and Mrs. J. L. Gardner. Fine displays not for competition were made by Langwater Gardens, Mrs. E. A. Wilkie. Walter Hunnewell, gardener T. D. Hatfield, received a bronze medal for a display of the new French summer blooming chrysanthemums. These were the center of much interest. There was the usual fine display of sweet-williams, prizes being awarded to Wm. Whitman, Dr. Weld and Wilfred Wheeler. Peonies were shown in less number but better form than at the peony show a week earlier, there being many contributors and George Hollis received a certificate of merit for his seedling Lucy E. Hollis, one of the thirty-three he had on exhibition. A certificate of merit was also awarded to Oakes Ames for *Cypripedium l'Ansonia* (*C. Rothschildianum* x *C. Morganae*) and honorable mention was given Walter Hunnewell for display of rose Rublin. Mrs. J. L. Gardner and Mrs. A. W. Blake showed groups of splendid Canterbury Bells in pots. W. N. Craig showed several varieties of *Gladiolus nanus* which he pronounced synonymous with *G. cardinalis*. Blue Hill Nurseries and Mt. Desert Nursery were represented by fine collections of herbaceous flowers. Strawberries and early vegetables were, as usual, excellent.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Back Reports Wanted.

The secretary would like to procure for the use of the society, copies of the annual reports of the following years: 1885, Cincinnati; 1886, Philadelphia; 1887, Chicago; 1888, New York; 1892, Washington; 1896, Cleveland; 1900, New York. Members having spare copies of any of these will confer a great favor by sending them to

WM. J. STEWART, Secretary.
11 Hamilton Place, Boston.

CLUB AND SOCIETY NOTES.

The Kentucky Society of Florists will hold their regular monthly meeting on July 3d at Fred Haupt's.

The R. I. Horticultural Society held a rose and strawberry show in Providence on June 21. A new seedling strawberry from the State experiment station, shown by Prof. F. W. Card, attracted much attention.

The New Haven County Horticultural Society, (Conn.), at its meeting on June 19 had a fine exhibit of roses by R. Bell, gardener to Miss Dana; John C. Morton; David Kydd, gardener to Mrs. Frances Wayland; J. H. Murray, gardener at Yale Botanic Gardens; John Slocombe and W. Beattie. Ernest Carroi read a paper on Heather.

The Huntington Horticultural and Agricultural Society (N. Y.), held its annual rose and strawberry show on June 21, with its usual fine display. George Ashworth, gardener for Walter Jennings, took first prize for a vase of cut flowers. The prizes for roses were secured largely by William O'Hara and James Kirby, and for strawberries by August Heckscher and Roland Conklin, of Rosemary Farm.

The second rose show of the New London County Horticultural Society at Norwich, Conn., on June 19 and 20 was a great success. The judges were David Bordon and John Fowler of Eastern Point, John Barron, gardener for Mrs. F. A. Roth. The display of palms and ferns by F. L. Osgood and the exhibits by Mrs. F. A. Roth and the Geduldig estate attracted much attention, as did also the collection of nymphaea and water lilies by H. A. Dreer of Philadelphia.

The next show and conference of the French National Chrysanthemum Society will be held at Caen, November 7, 8 and 9. A list of questions to be discussed has already been drawn up, to which we may refer later in the season. Among the very useful publications that have been brought out under the auspices of this society are Dr. Chifflet's book on "The Maladies and Parasites of the Chrysanthemum," and his large colored plate of the insects and diseases, with the remedies for each appended.

The great spring show of the National Horticultural Society of France was opened May 19, and in spite of rather indifferent weather was a great success, for the patronage of the public was very lavishly bestowed upon it. The new President of the French Republic attended in person and after inspecting the show distributed, as is customary upon such occasions, various decorations to those gentlemen whose labors were considered most worthy of special recognition. The late President of the French Republic, M. Loubet, has been nominated Honorary President of the National Horticultural Society of France on account of the deep interest he took in the welfare of the society during his term of office as Chief of the State.

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Sole Importers and Proprietors of "ROYAL CLUSTERS"
the Celebrated Bermuda Harrisii Lily

Finest, Surest and Most Prolific Flowering Lily in the World
"NONE BETTER"

NEWS NOTES.

Herbert S. Heath has started in the landscape gardening and nursery business at Newington, Conn.

C. Quadland & Son of North Adams, Mass., have taken the Bank street store opened last year by Winslow Cady.

E. D. Vickery of East Mansfield, Mass., was a heavy loser in the hail storm that swept over that locality recently.

S. B. Weeks of Waterford, Conn., has bought the greenhouses of the Mitchell estate and will remove them to his place at Lyon Station.

Fire started in the greenhouse of W. H. Humfelt, 1701 Highland avenue, Kansas City, Mo., last Saturday, but was discovered and extinguished with slight loss.

The Riverside Greenhouses at Gardner, Mass., are to be sold at auction on June 30. A. F. Johnson, the present owner, has decided to leave town. The advertisement in HORTICULTURE gives details.

Dudley & Son of Parkersburg, W. Va., are having plans drawn for a new store that shall be one of the finest in that section. It will be equipped with all the modern improvements and the interior decorations will be artistic and beautiful.

Ant. C. Zvolanek of Bound Brook, N. J., was a sufferer in the recent hail storm that visited that section, but the superior construction of his houses and their sheltered position among the mountains, prevented a serious loss. Glass in Plainfield was badly damaged.

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The most profitable Rose to date.
Strong, thrifty young plants.

\$10 per 100. \$90 per 1,000

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BAGSHOT, ENGLAND

have the finest stock of recognized Hardy Rhododendrons, Azaleas, Andromedas, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

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NEW CROP PANSY SEED

Michell's Giant Prize Strain

This strain is not to be compared with the ordinary Giant Trimardeau. The seed we offer will produce flowers of much heavier texture, longer stems and richer colorings.

	Tr. Pkt.	Oz.
Azuro Blue	\$0.40	\$2.00
Black Blue .....	.40	2.00
Emperor William, ultramarine blue.....	.40	2.00
Hortensia Red .....	.40	2.00
King of the Blacks .....	.40	2.00
Lord Beaconsfield, purple violet .....	.40	2.00
Peacock, blue, claret & white .....	.50	5.00
Snow Queen, pure white.....	.40	2.00
Striped and Mottled .....	.40	2.00
White with eye .....	.40	2.00
Pure Yellow .....	.40	2.00
Yellow with eye .....	.40	2.00

MICHELL'S GIANT EXHIBITION MIXTURE—For size of bloom, rich coloring and distinct markings, this cannot be excelled. Has been awarded 1st prize wherever exhibited. Trade pkt., 50c. per 1/8 oz. 75c. per oz., \$5.00.

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6 to 8 feet for staking purposes, 1000, \$6.00
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Lilium Harrisii
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and all other BULBS for FLORISTS.

Send us your requirements for special prices.

CYCAS REVOLUTA STEMS just arrived from Japan. Sizes and prices on application.

ASPARAGUS PLUMOSUS NANUS

at \$3.00 per 1000 Seeds.

Special price on large quantities.

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SEED TRADE.

J. M. Thorburn & Co. are busy fitting up and moving into their new store on Barclay street, New York. The enterprising head of this reliable old house promises to show the boys what an up-to-date retail seed store should be, and the present plans which are rapidly taking form will make this the handsomest seed store in America and the largest for retail purposes. It extends from Barclay street through to Park Place. The main retail department will be on Barclay street and the receiving and shipping will be done from the Park Place side.

Truck farming on Long Island, N. Y., is on the decline. For three years a wild real estate boom has had the western end of the island in its grip, thousands of acres of the finest trucking lands in this country have been sold to speculators and closed to production; prices have advanced far beyond values and a reaction is bound to come. In a few instances values are not fictitious and will probably still further advance, but in the main they are out of all reason, and when one realizes the thousands of acres of fine lands rendered useless by this speculative craze, it almost makes him sigh for Henry George and the single tax. The decline in truck farming is already severely felt by New York and Long Island seed dealers. New York may yet experience a famine in "garden sass."

Pansy Seed CROP OF 1904

I am now gathering seed from the finest mixture ever offered. Also to arrive, the finest mixture and separate colors grown in Europe. Send card for circular and prices.

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QUALITY SEED BULBS PLANTS

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Cabbage Worms

Killed by lightly dusting with
HAMMOND'S SLUG SHOT
For Pamphlet write to Flunkill-on-Hudson, N. Y. Sold by Seedsmen

NOTICE OF REMOVAL

On account of our recent fire, we were compelled to seek new quarters and wish to announce that after July 1st we shall be located at

NO. 5 UNION STREET

not quite 200 steps away from our former location. We extend a cordial invitation to all florists visiting Boston to give us a call at our new headquarters. Since our disastrous fire we have replenished our entire stock of seeds from the original sources and offer now for immediate sowing



PRIMULA OBOCONICA, RAWSON'S NEW GIANT, in the following colors: Pink, Pure White, Crimson, Superb Mixed, \$ 50 per 100 seeds, \$4 00 per 1000 seeds.
CINERARIA GRANDIFLORA RAWSON'S SUPERFINE, Liberal Trade Packet, \$1.00. **CINERARIA HYBRIDA, RAWSON'S DWARF**, Liberal Trade Packet, \$1.00.

Wait for our BULB CATALOGUE out July 15th.

W. W. RAWSON & CO.
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NEW ADDRESS

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New Crop of my Christmas Flowering SWEET PEA SEED

Christmas Pink and Florence Denzer, pure white, will be ready August 1st.

These two well known varieties are raised by over 2000 florists all over the world.—Here is one, out of many letters received:

Dear Sir: My sweet peas, which I raised from your seed, received the highest award at the Carnation Exhibit in Boston, being over 18 inches long.

JOHN T. GALE, Tewksbury, Mass.

Price 1-4 lb. 75c.; per lb. \$2.00
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All seed originated with me is sold in my original sealed pkts., with cultural direction, to the growers, but none for seedsmen for propagating.

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Some give you quantity, some
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Bostons and Scotti

8000 6 in. Bostons at 40c.
8000 6 in. Scotti at 40c.

PANS

\$1.00, \$1.50, \$2.00 and \$2.50
Ten thousand 2 1/2 in. Plumosus
Nanus at \$2.50 per 100; easily
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Just received in fine condition a large
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We also have to offer some strong
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Block Letters, 1 1/2 or 2 inch size per 100, \$2.
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Odontoglossum Crispum, the real Pachy Type.
To arrive shortly, C. Schroederæ, Mendelli,
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PITTSBURG, PA.Largest Wholesale House Between
New York and Chicago.**WHOLESALE FLOWER MARKETS**

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO June 25			ST. LOUIS June 5			PHILA. June 25			BOSTON June 28		
ROSES												
Am. Beauty and Edgely Fan. & Sp.	15.00	to	25.00	15.00	to	20.00	20.00	to	.....	8.00	to	25.00
" Extra.....	8.00	to	10.00	10.00	to	12.00	12.00	to	15.00	6.00	to	8.00
" No. 1.....	4.00	to	6.00	6.00	to	8.00	10.00	to	.....	4.00	to	6.00
" Lower grades.....	2.00	to	3.00	3.00	to	4.00	3.00	to	5.00	.50	to	2.00
Bride & 'Maid—Fan. & Sp.	6.00	to	8.00	3.00	to	4.00	6.00	to	.....	4.00	to	6.00
" Extra.....	4.00	to	5.00	2.00	to	3.00	4.00	to	5.00	3.00	to	4.00
" No. 1 and Lower gr.	2.00	to	3.00	1.00	to	2.00	2.00	to	3.00	.35	to	1.00
Liberty, Fancy.....	6.00	to	8.00	.....	to	.....	10.00	to	12.00	6.00	to	8.00
" Ordinary.....	3.00	to	4.00	.....	to	.....	6.00	to	8.00	.50	to	3.00
Richmond, Fancy.....	6.00	to	8.00	10.00	to	12.50	.....	to	.....	6.00	to	10.00
" Ordinary.....	3.00	to	4.00	3.00	to	4.00	.....	to	.....	.50	to	3.00
Golden Gate, Fancy.....	6.00	to	8.00	3.00	to	4.00	6.00	to	.....	3.00	to	5.00
" Ordinary.....	3.00	to	4.00	1.00	to	3.00	3.00	to	4.00	.50	to	1.00
Chatenay, Fancy.....	6.00	to	8.00	3.00	to	4.00	6.00	to	.....	3.00	to	5.00
" Ordinary.....	3.00	to	4.00	1.00	to	3.00	3.00	to	4.00	.50	to	1.00
CARNATIONS												
Fancy.....	1.50	to	2.00	1.50	to	2.00	2.00	to	3.00	.75	to	1.00
Ordinary.....	.75	to	1.00	.75	to	1.00	1.00	to	1.50	.35	to	.75
MISCELLANEOUS												
Cattleyas.....	.....	to	.....	.....	to	.....	40.00	to	60.00	40.00	to	60.00
Lilies.....	6.00	to	8.00	6.00	to	10.00	12.00	to	.....	5.00	to	8.00
Callas.....	.....	to	.....	6.00	to	10.00	.....	to	.....	5.00	to	8.00
Lily of the Valley.....	2.00	to	4.00	3.00	to	4.00	2.00	to	4.00	2.00	to	4.00
Paeonies.....	.....	to	.....	.....	to	.....	.....	to	.....	4.00	to	6.00
Sweet Peas.....	.50	to	1.00	.25	to	.50	.35	to	.75	.25	to	.35
Mignonette.....	.....	to	.....	1.00	to	2.00	1.00	to	.....	.....	to	1.00
Adiantum Cuneatum.....	.50	to	1.00	.....	to	1.00	.....	to	.....	.75	to	1.00
" Croweanum.....	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	1.50
Smilax.....	10.00	to	15.00	12.00	to	15.00	15.00	to	.....	12.00	to	16.00
Asparagus Plumosus, strings.....	20.00	to	35.00	25.00	to	50.00	35.00	to	50.00	.....	to	50.00
" " & Sprenger bunches	25.00	to	35.00	25.00	to	50.00	35.00	to	50.00	20.00	to	35.00
Lilacs per 100 bunches ..	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Snapdragon.....	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....

J.A. BUDLONG**37-39 Randolph Street, CHICAGO.****Roses and
Carnations
A Specialty.....****WHOLESALE
GROWER of CUT FLOWERS**

Cut Flower Market Reports

BOSTON Business remains in about the same condition as last week. Orders are few and stock is not up to the average. Roses are not even in a fair condition, while carnations are improving somewhat. The demand is light and but little change is expected in the next few weeks.

There was a lull in the **BUFFALO** market Saturday and Sunday, June 16th and 17th, and a good portion of the receipts were carried over. On Monday signs of life appeared and for the balance of the week there was a scramble for stock. Beauties and tea roses, together with all other flowers, began to move at a rate which made the wholesale clerks wear smiles. Plenty of stock was had to satisfy all up to Wednesday; for the balance of week the demand was greater than supply, many growers having thrown out part of their rose stock and carnations. Beauties of good quality moved freely, medium and shorter grades having the preference. Select Liberties, Kaiserins and Carnots were in fine form and sold out clean. Good demand was also had on colored carnations, sweet peas, peonies, and lily of the valley. White carnations were in abundant supply with but a light demand, but moved fairly well considering the amount handled. A good many orders were turned down at the end of the week on account of short supply. Asparagus Sprengeri and Croweanum were in good supply with demand fair.

Last week proved a **CHICAGO** busy one for all florists who were in a position to secure orders for graduations. The market was short of roses for a while, but shipments of Beauties came in and sold at a good figure. Beauties have improved in color, size and quantity relieving the strain of those having advance orders. Brides and Bride-maids are holding out well for this time of the year, while carnations are completely on the down grade. Sweet peas are harder to get and lily of the valley has advanced slightly. Gladiolus is looking well. Peonies are about finished. Green goods are in good supply.

The past week has been a busy one. The **COLUMBUS** floral designs and flowers which were sent on Thursday for the funeral at Milford, O., of Hon. John M. Pattison, the late Governor of the State, were from representative men in every walk of life, and practically filled a car on the special funeral train that went from here. The Livingston Seed Company supplied two magnificent baskets of American Beauty roses, one for the House of Representatives and one for the Senate; the Franklin Park Floral Company supplied for the State officials a huge copy of the State seal, made of carnations, wheat and green; Graff Bros. and the Fifth Avenue Floral Company also sent many orders. Among the special pieces was a beautiful mantle of lily of the valley and smilax, which covered the casket. All



NEW CROP

Bronze GALAX

Special Price in 10,000 lots \$6.00 per case

DAGGER FERNS, 1.00 per 1000

NEW CROP FANCY FERNS, 1.00 per 1000

They are the Finest and Largest Ferns ever sold.

Bouquet Green, \$7.00 per 100 lbs. Bouquet Green Wreaths and Laurel Wreaths, all sizes and prices.

Bronze and Green Galax, 75c per 1000. Discount on large orders.

Send To Us For Your Laurel For June Weddings.

It's the best to be had for all decorative work at this time of the year. Made fresh daily from the woods, 4c., 5c. and 6c. per yard.

Satisfaction guaranteed. No matter how large or small the order it will be filled promptly and with the best and freshest stock right from the woods.

Telegraph or telephone orders will receive immediate attention.

Telegraph Office, NEW SALEM, MASS. Long Distance Telephone Connection.

TELL US YOUR WANTS, WE WILL DO THE REST

CROWL FERN CO., MILLINGTON, MASS.

the good stock obtainable was used for this occasion. Apart from this work a most excellent general trade has been sustained.

INDIANAPOLIS Business continues good both in cut flowers and plants: The trade in bedding plants this season has been far ahead of that of any previous year and prices have been firmer. The supply generally has been equal to the demand, but now most of the growers are cleared out. The cut flower trade has kept up well so far. The usual number of weddings have used up large quantities of blooms and most of the florists have had a share. Sweet peas and summer field grown flowers are extremely plentiful and same may be said of roses and carnations. The chief difficulty is the quality of the stock

LOUISVILLE Business the past week has not been rushing but stock has kept moving. Carnations and roses of good quality find a fair demand; lilies and sweet peas continue good, there is an abundant supply and they sell well. The conditions of supply and demand on other stock remain unchanged since our last report.

PHILADELPHIA The market was more balanced last week, few gluts occurred in the staples. On the whole business was good for the season. Beauties were in good demand notwithstanding their rather distinguished air. Brides, Bridesmaids, and Kaiserins went well also; but the quality was the regular summer article. Buyers were pleased with what would have caused a terrible kick six months ago. The majority of the carnation receipts are poor as to quality although there is still some choice stock coming in. Lawson is in the lead as to quality and some really fine flowers of this variety have been seen of late.

Queen, Ethel Ward, Prosperity and Boston Market are among the other favorites. Lily of the valley is scarce. Good lily of the valley is always in demand. Cattleyas are plentiful at present, and the call for them is excellent. Out-door subjects such as irises go rather slow and do not cut much of a figure as commercial subjects. Cold storage peonies are about over for this locality.

SAN FRANCISCO It cannot be truthfully reported that the all-around sameness of valuation for flowers that was in vogue for the few florists during Memorial Day season, came to stay. It is now again observed these quiet business days that the "what will you give" price that prevailed from the time of the disaster till Memorial Day, is the present trade condition. But an improved business status of affairs is anticipated ere long, not only by the few re-established florists, but by two other cut-flower dealers of ante-calamity days. These two, re-established the past week, are A. Matraria of the old Art Floral Company, and J. J. O'Connor. The former has located at Eddy street and Van Ness avenue, and the latter at 531 Hayes street.

A meeting of the stockholders of the Robert Craig Company, Philadelphia, Pa., was held June 25, 1906. The report showed the business to be in a prosperous condition. A semi-annual dividend of three per cent. was declared payable June 30, 1906. The following officers were elected: Pres., Robert Craig; vice-pres., George Craig; sec.-treas., Robert A. Craig; directors, H. E. Michell, Chas. Keller, Daniel C. Donaghue, George Craig, Robert Craig.

Roger Comstock and H. L. Hungerford of Milford, Conn., will consolidate their interests after June 30.

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Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, NEW YORK
Tel. 299 Madison Sq. Open 6 A. M. to 5 P. M.

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FINE ROSES FANCY CARNATIONS
A Full Line of All CUT FLOWERS
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The Reliable Commission House
Richmond Roses and Rich Flowers
of all varieties
JOS. S. FENRICH
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FOR GOOD PRICES
AND CASH RETURNS
send your flowers to
Phil. F. Kessler
55 West 26th Street, New York.
Telephone 2921 Madison Square.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending June 23 1906	First Half of Week beginning June 25 1906		Last Half of Week ending June 23 1906	First Half of Week beginning June 25 1906
Roses					
Am. Beauty and Edgeley fan and sp.	10.00 to 15.00	15.00 to 25.00	Carnations, Fancy.....	1.00 to 1.50	2.00 to 3.00
extra.....	0.00 to 8.00	8.00 to 12.00	Carnations, Ordinary.....	.25 to .75	1.00 to 1.50
No. 1.....	3.00 to 5.00	3.00 to 6.00	Cattleyas.....	35.00 to 60.00	35.00 to 60.00
Lower grades.....	1.00 to 2.00	1.00 to 2.00	Lilies.....	4.00 to 5.00	4.00 to 5.00
Bride & 'Maid, fan and sp.....	4.00 to 5.00	4.00 to 6.00	Callas.....	4.00 to 5.00	2.00 to 3.00
extra.....	2.00 to 3.00	2.00 to 4.00	Lily of the Valley.....	1.00 to 4.00	2.00 to 3.00
No. 1 and lower grades.....	.50 to 1.00	1.00 to 2.00	Pæonies.....	1.00 to 4.00	..... to
Liberty, fancy.....	6.00 to 8.00	6.00 to 8.00	Sweet Peas, bunches.....	2.00 to 5.00	.10 to .40
ordinary.....	.50 to 4.00	.50 to 4.00	Nigronette.....	.50 to 1.00	.50 to 1.00
Richmond, fancy.....	6.00 to 8.00	6.00 to 8.00	Adiantum Cuneatum.....	.50 to .75	..... to .50
ordinary.....	.50 to 4.00	.50 to 4.00	Croweanum.....	..... to 1.50	..... to 1.50
Golden Gate, fancy.....	4.00 to 5.00	4.00 to 5.00	Smilax.....	10.00 to 15.00	6.00 to 10.00
ordinary.....	.50 to 2.00	.50 to 2.00	Asparagus Plumosus.....	20.00 to 30.00	..... to 25.00
Chatenay, fancy.....	4.00 to 5.00	4.00 to 5.00	" & Sprenger, bunches.....	10.00 to 20.00	..... to
ordinary.....	.50 to 2.00	.50 to 2.00	Snapdragon.....	..... to .....	..... to

ORCHIDS AT ALL SEASONS
WM. STUART ALLEN CO.
Commission Merchants in Cut Flowers
53 WEST 28TH STREET, NEW YORK
Telephone 356 Madison Square

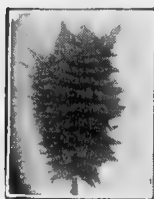
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WHOLESALE FLORISTS
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to buy your florist supplies and novelties for
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supply house

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**BEAVEN'S
FADELESS
SHEET MOSS**

**\$2.50
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Send for Circular and sample

LYRATA

a lasting evergreen, takes the place of
wild smilax for June decorations. IT'S
well worth trying.

DO IT NOW?

E. A. BEAVEN, Evergreen, Ala.

Best Flowers

in the **Boston Market**

N. F. MCCARTHY & CO.

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And all kinds of Seasonable Flowers

WM. F. KASTING

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	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	June 26		June 5		June 26		June 26	
ROSES								
Am. Beauty and Edgely, fan and sp.	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00
" extra.....	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	12.00	to 15.00
" No. 1.....	10.00	to 12.50	10.00	to 15.00	10.00	to 15.00	6.00	to 8.00
" Lower grades.....	5.00	to 8.00	6.00	to 8.00	5.00	to 10.00	2.00	to 3.00
Bride and Maid, fan, and sp.	.....	to 8.00	6.00	to 8.00	7.00	to 8.00	.....	to 8.00
" " extra.....	5.00	to 6.00	5.00	to 6.00	3.00	to 7.00	.....	to 6.00
" No. 1 and Lower grades.....	2.00	to 4.00	3.00	to 4.00	3.00	to 10.00	2.00	to 4.00
Liberty, fancy.....	.....	to 8.00	6.00	to 8.00	6.00	to 10.00	.....	to 10.00
" Ordinary.....	3.00	to 5.00	4.00	to 6.00	3.00	to 6.00	.....	to 10.00
Richmond, Fancy.....	.....	to 6.00	6.00	to 8.00	6.00	to 10.00	8.00	to 12.00
" Ordinary.....	.....	to 1.00	1.00	to 6.00	3.00	to 6.00	4.00	to 6.00
Golden Gate, Fancy.....	.....	to 6.00	.....	to 6.00	5.00	to 6.00	8.00	to 10.00
" Ordinary.....	2.00	to 4.00	3.00	to 4.00	3.00	to 5.00	4.00	to 6.00
Chatenay, Fancy.....	.....	to 6.00	6.00	to 8.00	.....	to 8.00	8.00	to 10.00
" Ordinary.....	2.00	to 4.00	4.00	to 6.00	.....	to 6.00	4.00	to 6.00
CARNATIONS								
Fancy.....	.....	to 3.00	.....	to 3.00	2.00	to 3.00	2.00	to 3.00
Ordinary.....	1.00	to 2.00	.....	to 2.00	1.00	to 2.00	.75	to 1.00
MISCELLANEOUS								
Cattleyas.....	.....	to 40.00	.....	to 60.00	.....	to 15.00	.....	to 18.00
Lilies.....	.....	to 10.00	.....	to 12.00	.....	to 15.00	.....	to 18.00
Callas.....	.....	to 8.00	.....	to 12.50	.....	to 15.00	.....	to 18.00
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Paeonies.....	.....	to 3.00	.....	to 5.00	.....	to 5.00	.....	to 8.00
Sweet Peas.....	.35	to .50	.50	to .60	.30	to .60	.25	to .75
Mignonette.....	.....	to 1.00	.....	to 2.00	.....	to 2.00	.....	to 2.00
Adiantum Cuneatum.....	.....	to 1.00	.....	to 2.00	.....	to 2.00	.....	to 2.00
" Croweanum.....	.....	to 1.00	.....	to 2.00	.....	to 2.00	.....	to 2.00
Smilax.....	12.50	to 15.00	.....	to 15.00	12.50	to 15.00	12.50	to 15.00
Asparagus Plumosus, strings.....	40.00	to 50.00	30.00	to 50.00	40.00	to 50.00	30.00	to 50.00
" " & Sprenger, bunches.....	.....	to 35.00	30.00	to 40.00	25.00	to 50.00	30.00	to 50.00
Gladiolus.....	to 3.00	to 3.00	to 3.00	to 3.00
Snaptagon.....	to 3.00	to 3.00	to 3.00	to 3.00

779

Geo. A. Sutherland Co.

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Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

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27th ST., N. Y.

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Fresh cut Palmetto & Cypas Palm Leaves, Galax, Leu-
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Asparagus Plumosus Nanus.

Asparagus Plumosus nanus or Asparagus Sprengeri seedlings, strong, thrifty, 100 \$1.25, 1000 \$10.00. H. H. Berger & Co., 47 Barclay St., N. Y. City.

Asparagus Plumosa, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kastling, 385 Elliott St., Buffalo, N. Y.

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We have a good assortment of bedding plants. Write for prices. J. W. Coldesh, 53rd and Woodland Aves., Philadelphia.

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Bulbs, Narcissus P. W. G., a fine season. fine bulbs. Prices on application. Correspondence solicited. Misses Wilson, Mildred & Pleasant Sts., Montgomery, Ala.

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Cannas, Bronze and French, 4 inch, \$6 per 100. A. F. Belcher, Foxboro, Mass.
10,000 fine potted stock ready to plant. 20 best sorts. List free. Benjamin Connell, West Grove, Pa.

Cannas, from 4-inch pots, leading varieties, fine stock. J. W. Adams & Co., Springfield, Mass.

Cannas Alemana and Austria, 4-in., \$4.00 100; same varieties, started from moss, well rooted, \$2.00 100. Geo. L. Miller Co., Newark, O.

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5000 best commercial sorts. List free. Benjamin Connell, West Grove, Pa.

Chrysanthemums, out of 2 1/2-in. pots, good strong stock. Write for varieties and prices. Pittsburg Rose & Carnation Co., Gibsonia, Pa.

COLEUS.

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English Ivy, two and three-inch stock. J. W. Adams & Co., Springfield, Mass.

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- Ferns from flats, best sorts, \$1.25 100; \$10.00 1000. Ferns for fern dishes, 24 in., \$3.00 100; \$25.00 1000. Fern spores, named or mixed, 25c. pkt.; large pkt., 50c. H. H. Berger & Co., 47 Barclay St., N. Y. City.

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- Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' FERTILIZER.

- A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address J. W. Barwell, Blatchford's Calf Meal, Animal and Poultry Foods, Fertilizers, Karbo Dip, Seeds, etc., Waukegan, Ill. Established at Leicester, England, in 1800.

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- Eyres, 11 N. Pearl St., Albany, N. Y.**
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- Mills, the Florist, Jacksonville, Fla.**
 Telegraph or mail orders promptly filled.
 Long distance telephone connections.

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Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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The Cottage Gardens Co., Queens, N. Y.
George Hollis, S. Weymouth, Mass.
Fine collection of Best Peonies. Complete Peony and Phlox Manuals, 25 cents each. C. S. Harrison's Select Nursery, York, Nebr.

PIPE FITTINGS.

Pipe, Valves and Fittings, Cuyler & Mohler, Baltimore, Md. Manufacturers' prices, F. O. B. your railroad station. Immediate shipment. Try us.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Primula Obs. Grandiflora. 4-in. pots. \$6 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

PURTY.

Benj. Hammond, Fishkill on Hudson, N. Y.
Twemlow's Old English Glazing Putty.
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RHODODENDRONS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pye, Upper Nyack, N. Y.
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Rose Hill Nurseries, New Rochelle, N. Y.
Roses, Killarney.

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John C. Hatcher, Amsterdam, N. Y.
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American Beauties, 2-in., \$55.00; 3-in., \$80.00 1000. Cash. J. Henry Bartram, Lansdowne, Pa.

Roses. Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1-2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

Roses. Richmond, 2 1-4 in., \$7.00 100; \$65.00 1000. Chateaux, La Detroit, Perle, 2 1-2 in., \$3.50 100; cash. W. J. & M. S. Vesey, Fort Wayne, Ind.

2 1-2 in. pots, ready now. Baby Ramblers, Teas, H. P. Roses, 50 varieties, at \$30.00 1000; Crimson Ramblers, \$25.00 1000; Baltimore Belle, Dorothy Perkins, Pink, White and Yellow Ramblers, Queen of Praise, Seven Sisters, etc., at \$20.00 1000. Gilbert Costich, Rochester, N. Y.

SALVIAS.

Salvias, 4 inch, \$6 per 100. A. F. Belcher, Foxboro, Mass.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co.,
36 Cortlandt St., New York.
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H. F. Michell Co., 1018 Market St., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
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A. T. Boddington, 342 W. 14th St., N. Y.
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James Vick's Sons, Rochester, N. Y.
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G. C. Watson,
Dobson Bldg., 9th and Market Sts., Phila.
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Ant. C. Zvolanek, Bound Brook, N. J.
Christmas Flowering Sweet Pea Seed.
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Conrad Appel, Darmstadt, Germany, Es-
s. 1784. High Grade Grass, Clover and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O.
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STEAM TRAP.

E. Hippard, Youngstown, O.

SWEET POTATO PLANTS.

For sale, 100 M. Sweet potato sprouts, extra fine; 500 M. cabbage plants, several varieties, all \$1.00 per M.; \$8.00 per 10 M. Orders filled same day received. W. F. Allen, Salisbury, Maryland.

VEGETABLE PLANTS.

Plainfield Nursery, Plainfield, Ind.
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VENTILATING APPARATUS.

Lord & Burnham Co.,
1133 Broadway, New York.
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Piersen U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
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Weathered Co., 46 and 48 Marion St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave., Chicago.

VIOLETS.

H. R. Carlton, Whitehouse, O.
Violet, Gov. Herrick.
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William Sim, Cliftondale, Mass.
Princess of Wales.
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WEED KILLER.

Fairmount Chemical Co., Broad & Fairmount Aves., Philadelphia.
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American Horticultural Distributing Co., Martinsburg, W. Va.
Target Brand Weed Killer.
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WIREWOK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

N. F. McCarthy & Co., 84 Hawley St., Boston.
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George A. Sutherland Co., 34 Hawley St., Boston.
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Welch Bros., 15 Province St., Boston.
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Buffalo.

Wm. F. Kasting, 333-37 Ellicott St., Buffalo, N. Y.
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Chicago.

J. A. Budlong, 37 Randolph St., Chicago.
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E. H. Hunt, 76-78 Wabash Ave., Chicago.
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Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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Vaughan & Sperry, 60 Wabash Av., Chicago.
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Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 123 E. 3d St.

Detroit.

Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Dilger, mgr.
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WHOLESALE FLORISTS—Continued.
New York.

Wm. Stuart Allen Co., 53 W. 28th St., New York.

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J. S. Fenrich, 110 W. 23th St., New York.
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Ford Bros., 48 West 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 West 28th St.
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E. C. Horan, 55 West 28th St., New York.
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Philip F. Kessler, 55 W. 26th St., New York.
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Julius Lang, 53 West 30th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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Frank Millang, 55-57 W. 26th St., New York.
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A. Moltz, 55-57 W. 26th St., New York.
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John J. Perkins & Son, 115 W. 30th St., New York.
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John I. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Traendly & Schenck, 44 W. 28th St., New York.
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Hicks & Crawbuck, Inc., 76 and 78 Court St., Brooklyn, N. Y.
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Philadelphia.

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.

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Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.

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S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.

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Edward Reid, 1526 Ranstead St., Philadelphia, Pa.

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Pittsburg.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.

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Pittsburg Florists' Exchange, 223 Diamond St., Pittsburg, Pa.

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New Offers in This Issue.**BEDDING PLANTS.**

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
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CHRYSANTHEMUMS.

The H. Weber & Sons Co., Oakland, Md.
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GARDENIA VEITCHII, CHRYSANTHEMUMS, FERNS.

W. P. Craig, 1305 Filbert St., Philadelphia.
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PANSY SEED.

Francis Brill, Hempstead, L. I., N. Y.
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REMOVAL NOTICE.

W. W. Rawson & Co., 5 Union St., Boston.
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ROSE PLANTS.

Poehlmann Bros. Co., Morton Grove, Ill.
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WHITMANII FERN.

S. S. Skidelsky, 824 N. 24th St., Phila.
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PHILADELPHIA NOTES.

A seedling chrysanthemum in full bloom was a feature of the monthly meeting of the Horticultural Society held on the 19th inst. There was also a fine display of sweet peas.

George Samtman has retired from the firm of Myers & Samtman, rose growers, Chestnut Hill, and will build a new establishment for himself in this vicinity. Mr. Samtman is a practical grower and has been very successful in the past with Beauty, Liberty, and other difficult subjects. He starts his new venture with the brightest prospects.

The H. F. Michell Co. are moving their flower seed department from the third to the second floor, where better light and more room are available for the increasing demands of the business. Mr. Ely, who has charge, says the increase this year has been very gratifying.

Charles Sim, the popular landscape gardener and contractor of Rosemont, has been laid up for the past six weeks from a bad fall while engaged in superintending the new work on the W. P. Hinzey estate. He is now able to be about again and actively attending to the detail work of his extensive business.

The Lord & Burnham Co have secured the contract for new heating plant and additional glass for the Wilmington and Brandywine cemetery; also a new addition to the greenhouses of Edward T. Lewis, Wilmington; both contracts through the Philadelphia office which is in charge of D. T. Connor.

William Griffin has retired from the firm of Griffin Bros., Frankford, on account of ill-health, and sailed on the S. S. Lucania on the 18th inst. The business will be continued by James Griffin, the founder of the firm.

W. E. McKissick says that one of their most satisfactory scarlet carnations at the present time, and in fact in the fall and all through the season, is Elbon, a variety raised by Roney Bros., of West Grove. It is only medium to small in size but grand in every other way, and fills a niche all its own.

Samuel S. Pennock was absent from the city from the 22nd to the 26th at the wedding of his sister-in-law, Miss Helen B. Foster of Westerly, R. I., to Mr. H. N. Willets of Philadelphia.

Victor Goshens, superintendent of the Graham conservatories at Logan, sails for Europe July 1st on the Red Star Line Philadelphia to Antwerp. Business and pleasure combined.

A special meeting of the Florists' club was held on Wednesday, the 27th, to arrange for a reception to Hugh Dickson of Belfast. This interesting event is scheduled for July 6th.

Ernest Hemming will give a talk on "Japanese Irises" at the regular monthly meeting of the Florists' club July 3rd.

GREENHOUSES BUILDING AND PROJECTED.

Lawrence, Mass.—A. H. Wagland, extensions.

N. Woburn, Mass.—Adam Foster, extension to houses.

Kansas City, Mo.—Budd Park Greenhouse Co., one house.

PARK WOODLANDS AND PLANTATIONS.

Read before the American Association of Park Superintendents by J. A. Pettigrew.

The subject of the treatment of natural woodlands in parks is of vast importance, and commands the earnest thought of landscape gardeners. Such areas are generally made up in great part of thick growths of trees, which have injured each other, more or less, by close contact—natural, perhaps, in the sense of having sprung from the soil without the aid of man, but having, nevertheless, been subject to such unnatural conditions as to upset Nature's balance.

The effort on the part of the landscape gardener or forester to improve the natural or growing condition of woodlands in public parks is generally met with opposition from probably well-meaning, but badly-informed, critics, who cry that the work is an interference with Nature, and who call in the aid of ready tongues, and readier pens, to stop the "outrage."

The forester brings into service the practical experience and study of years in his effort to assist Nature in her work, yet all for naught; the clamor of a few, enlisted in a mistaken crusade, discourages him, or influences those in authority to the extent of causing a stoppage of the work, and the result is seen too painfully, all over the country, in the malformed and distorted condition, from overcrowding, of trees in parks.

General rules can scarcely be framed for the treatment of natural woodland; much depends on the use to be made of it, whether for woodland effects or woodland use. The first operation in a thick piece of woodland desired to be retained for natural effects should be that of thinning; trees of individual merit or beauty should have interfering trees removed, to allow them to develop freely. In places, areas of greater or less size may be found entirely filled with trees, which, by reason of overcrowding, are so far injured that they can never recover their lost beauty. In such cases a free cutting should be made to allow light to penetrate, so as to permit of the growth of saplings or newly-planted material below, and further cuttings made from year to year.

(To be Continued.)

HOTHOUSE GRAPE VINES,

fine strong, two and three year old canes, Black Hamburg, Muscat Alexandria and other varieties

Rose Hill Nurseries,
NEW ROCHELLE, N. Y.

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	Per 100	1000
RICHMOND, 2½-in., tancy stock.....	\$6.00	\$50.00
" 3½-in., extra tancy.....	9.00	80.00
Beauties, 2½-in., good stock.....	5.00	45.00
" 3½-in., strong stock.....	8.00	80.00
Rosalind Orr English, 2½-in., strong stock.....	6.00	
Kaiserin, 2½-in., extra fine stock.....	4.50	40.00
" 3½-in., extra fine stock.....	6.50	60.00
Golden Gate, 2½-in., extra fine stock..	4.00	35.00
Uncle John, 2½-in., extra fine stock..	4.00	35.00
Perle, 2½-in., extra fine stock.....	5.00	45.00
Sunrise, 2½-in., extra fine stock.....	5.00	45.00
Maids, 2½-in., extra fine stock.....	6.00	55.00
Chatenay, 2½-in., extra fine stock.....	4.00	35.00
" 3½-in., extra fine stock.....	6.00	55.00
Liberty, 4-in. grafts, 300 plants left ..	9.00	
Kate Toulton, 3½-in., ..	25.00	
Cut Back Bench Beauties.....	4.50	40.00
Richmonds.....	6.00	55.00

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MORTON GROVE, ILL.

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ENERGETIC YOUNG MAN, with thorough Ornamental Nursery training, including hardy herbaceous plants, may find it to his advantage to correspond with us. Permanent position to right party. State experience, references and salary expected. Position now open.

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NEW HAVEN, CONN.

FOR SALE—Five greenhouses containing 5000 feet of glass. Hot water heat. Town water. One acre of land. 10 minutes walk from depot, 1 minute from electric. Near churches, stores and schools. For particulars write.

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GREAT BARGAIN Retail florist's establishment in Brockton, Mass., fully stocked, fine location. Must be sold at once. Address Greenhouse, care HORTICULTURE, 11 Hamilton Place, Boston.

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WANTED A few specimen plants of Polypodium, Aureum, William W. Edgar Co., Waverley, Mass.

WANTED Young, single man for fruit range, Palms and Violet Houses. Wages \$50.00. Reply to E. J. C., Office of HORTICULTURE.

WANTED Young single man for Greenhouse, who understands grapes. Wages \$35.00 and board. Reply to R. M. C., Office of HORTICULTURE.

WANTED Young man, 22 to 26, to work in greenhouses; \$55.00 per month. Reply to L. D. B., Office of HORTICULTURE.

WANTED Young single man, thorough experience, to take charge of greenhouses, desks, landscape dept., etc. (10 men employed). Wages \$40.00 and board. Reply to C. H. HORTICULTURE Office.

WANTED Situation as foreman on 2nd or 3rd class place. A good grower of Golden Lorraine, Archduke, Roses and C. S. Jones. Twenty years' experience. Address Foreman, care HORTICULTURE, 11 Hamilton Place, Boston.

GREENHOUSE MATERIAL.

OF ALL KINDS

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SEND FOR NEW FREE ILLUSTRATED CATALOGUE -

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POT MAKERS FOR 140 YEARS

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KIND EVERY WARE FLORIST

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
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800 3 1/2 " " " 5.80	
500 4 " " " 4.50	
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Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money

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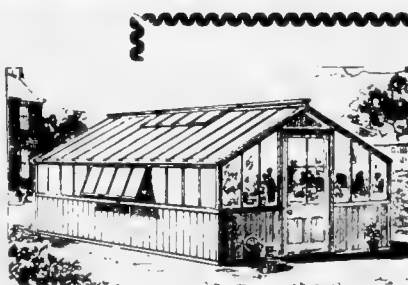
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"You will find all these points — and a lot more in Premier Houses. There is sense all the way through. There is experience behind us — that's a reason — et booklet No. 48.

Chas. H. Manley

Premier Works, St. Johns, Mich.

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FULL SIZE
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Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

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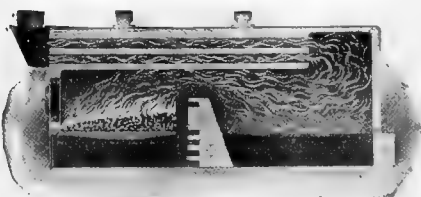
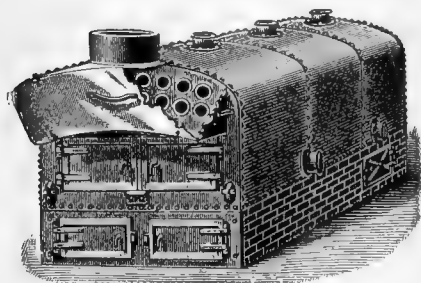


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See how unobstructed the light in the house is, by either gutters or heavy supporting posts—a clean sweep from ridge to foundation wall—a regular bubble of glass.

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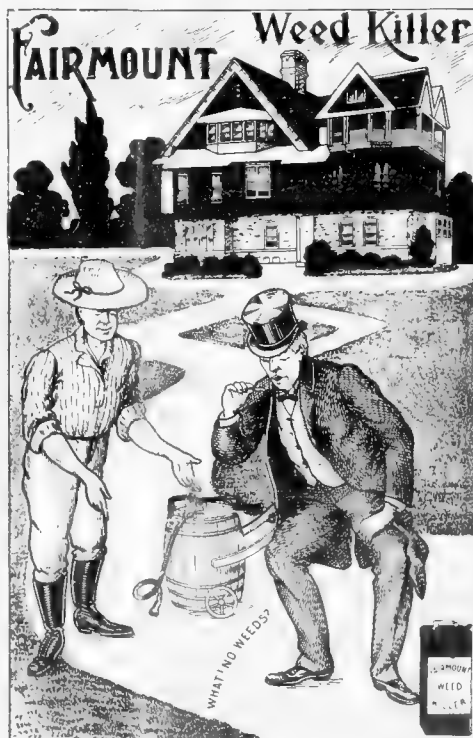
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